DACW-33-85-D-0011 Delivery Order 0008
Jonesport Harbor Navigation Improvements

FILE COPY

ATLANTIC TESTING LABORATORIES, LIMITED

Sustaining Member—N.Y.S. Society of Professional Engineers

atl

Box 29
Canton, N.Y. 13617
(315) 386-4578

Box 356
Cicero, N.Y. 13039
(315) 699-5281

January 10, 1986

Department of the Army
New England Division, Corps of Engineers
424 Trapelo Road
Waltham, MA 02254-9149

Attn: Mr. Richard D. Reardon

Re: Contract No. DACW33-85-D-0011
Delivery Order No. 0008
Jonesport Harbor Navigation Improvements
Jonesport, ME

Gentlemen:

In accordance with Delivery Order No. 0008, dated 12 November 1985, attached is one copy of our final engineering report detailing the subsurface investigation at Jonesport Harbor as referenced above.

By copy of this letter, we are also transmitting two copies of this report to the Chief of the Geotechnical Engineering Branch.

If you have any questions or comments, please do not hesitate to contact our office.

Respectfully submitted,

Spencer F. Thew, P.E./L.S.
President

SFT/smf

cc: Chief, Geotechnical Engineering Branch (2)
encs.

RECEIVED
FEB - 3 19[illegible]
GEO[illegible]
ENGINE[illegible]

RECEIVED
JAN 17 1986
GEOTECHNICAL
ENGINEERING BRANCH

SECTION 1

SUBSURFACE INVESTIGATION
JONESPORT HARBOR NAVIGATION IMPROVEMENTS
JONESPORT, ME

CONTRACT DACW-33-85-D-0011
CONTRACTING OFFICER Edward D.Hammond, LTC, CE
28 June 85

DELIVERY ORDER NO. 0008
November 12, 1985

PREPARED FOR: Department of the Army
New England Division, Corps of Engineers
424 Trapelo Road
Waltham, MA 02254-9149

PREPARED BY: Paul M. Fisher, P. E.
Atlantic Testing Laboratories, Limited
P. O. Box 29
Canton, NY 13617

ATL Project No. CD010-12-85

December 18, 1985

SECTION 2

SECTION 3

SCOPE OF INVESTIGATION

a. DELIVERY ORDER NO. 0008

CHECKED BOX APPLIES			PAGE 1 OF
	[X] ORDER FOR SUPPLIES OR SERVICES	[ ] REQUEST FOR QUOTATIONS NO RETURN COPIES OF THIS QUOTE BY (THIS IS NOT AN ORDER. See DD Form 1155)	2

1 CONTRACT/PURCH ORDER NO	2 DELIVERY ORDER NO	3 DATE OF ORDER	4 REQUISITION PURCH REQUEST NO	5 CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1
DACW33-85-D-0011	0008	12 NOV 85	GEB 86-6	DO

6 ISSUED BY	CODE	7 ADMINISTERED BY (If other than 6)	CODE	8 DELIVERY FOB
Department of the Army New England Division, Corps of Engineers 424 Trapelo Road Waltham, MA 02254-9149 Buyer/Symbol: Kewer, NEDSD-P Phone: AC 617-647-8414				[X] DEST [ ] OTHER (See Schedule if other)

9 CONTRACTOR/QUOTER	CODE	FACILITY CODE	10 DELIVER TO FOB POINT BY	11 CHECK IF BUSINESS
NAME AND ADDRESS Atlantic Testing Laboratories, Ltd. P.O. Box 29 Canton, NY 13617			In accordance with Paragraph 7, of Attachment	[X] SMALL [ ] SMALL DISADVANTAGED [ ] WOMEN-OWNED
			12 DISCOUNT TERMS NET	
			13 MAIL INVOICES TO Finance & Accounting Officer at issuing office	

14 [illegible]	CODE	15 PAYMENT WILL BE MADE BY	CODE	MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER
Services for: U.S. Army Engineer Division New England ATTN: Geotechnical Engineering Branch 424 Trapelo Road Waltham, MA 02254-9149		Finance & Accounting Officer at issuing office		

16 TYPE OF ORDER		
DELIVERY	X	This delivery order is subject to instructions contained on this side of form only and is issued [illegible] in accordance with and subject to terms and conditions of above numbered contract.
PURCHASE		Reference your furnish the following on terms specified herein, including, for U.S. purchases General Provisions of Purchase Order on DD Form 1155 (EXCEPT CLAUSE NO. 12 APPLIES ONLY IF THIS BOX [ ] IS CHECKED, AND NO. 14 IF THIS BOX [ ] IS CHECKED), special provisions ; and delivery as indicated. This purchase is negotiated under authority of 10 USC 2304(a)(3) or as specified in the schedule if within the U.S., its possessions or Puerto Rico, if otherwise under 2304(a)(5)

[ ] If checked, Additional General Provisions apply. Supplier shall sign "Acceptance" on DD Form 1155 and return copies

17 ACCOUNTING AND APPROPRIATION DATA/LOCAL USE
96X3122 Construction General
BA009304J2PA000 (MC)
CONTRACT

SB(
GEB
AE/PS Coord
MAK/SW

18 LINE ITEM NO	19 SCHEDULE OF SUPPLIES SERVICES	20 QUANTITY ORDERED ACCEPTED*	21 UNIT	22 UNIT PRICE	23 AMOUNT
	Furnish necessary equipment and personnel to perform 38 machine probings and two test borings at Jonesport Harbor, ME, according to Attachment NO. 1	APPROX.			ESTIMATED
1.2	Geotechnical Inspector	80	HR	$40.00	$3,200.00
1.3	Per Diem--Overnight Stay	9	DAY	45.00	405.00
1.4	Mileage Roundtrip	872	MI	.35	305.20

*If quantity accepted by the Government is same as quantity ordered, indicate by √ mark. If different, enter actual quantity accepted below quantity ordered and encircle	24 UNITED STATES OF AMERICA BY	EDWARD D. HAMMOND, Lt.Colonel, CE Deputy Division Engineer CONTRACTING OFFICER	TOTAL 29 DIFFERENCES	$29,684.20

25 QUANTITY IN COLUMN 20 HAS BEEN	27 SHIP NO	28 D.O. VOUCHER NO	30 INITIALS
[ ] INSPECTED [ ] RECEIVED [ ] ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED	[ ] PARTIAL [ ] FINAL	32 PAID BY	33 AMOUNT VERIFIED CORRECT FOR
DATE / SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	31 PAYMENT [ ] COMPLETE [ ] PARTIAL [ ] FINAL		34 CHECK NUMBER
26 I certify this account is correct and proper for payment DATE / SIGNATURE AND TITLE OF CERTIFYING OFFICER			35 BILL OF LADING NO

37 RECEIVED AT	38 RECEIVED BY	39 DATE RECEIVED	40 TOTAL CONTAINERS	41 S R ACCOUNT NUMBER	42 S R VOUCHER NO

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 16-101
EXCEPTION TO SF 30 APPROVED
BY NARS, MAR 1977

CONTINUATION SHEET

REF NO. OF DOC. BEING CONT'D: Delivery Order No. 0008 To DACW33-85-D-0011

PAGE 2 OF 2

NAME OF OFFEROR OR CONTRACTOR: Atlantic Testing Laboratories, Ltd.

CONTRACT LINE ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
		APPROX.			ESTIMATED
2.1	Geotechnical Report	1	JOB	60% of Line Item 1.2	$1,920.00
3.1	Mobilization and Demobilization	1	JOB	$180.00	180.00
3.3	Mileage from/to Contractor's equipment storage site in Manchester, NH	436	MI	.35	152.60
3.4	Survey crew and equipment	6	DAY	440.00	2,640.00
3.5	Overnight per diem for survey crew	5	DAY	90.00	450.00
3.6	Data Reduction and Plotting	1	JOB	100% of Line Item 3.4	2,640.00
3.7	Standby time	32	HR	55.00	1,760.00
4.1	Sample Delivery	1	JOB	80.00	80.00
6.1	Mobilization and Demobilization	1	JOB	700.00	700.00
6.3	Mileage from/to Contractor's main equipment storage site located in Manchester, NH	436	MI	1.15	501.40
6.5	Standby time/on site moves	32	HR	75.00	2,400.00
10.2	16 ft. boat	10	DAY	60.00	600.00
10.6	320 square foot float	1	JOB	800.00	800.00
10.7	Mobilization and Demobilization for 320 square foot float	1	JOB	950.00	950.00
15.2	Machine Probes, 300 lb. hammer (5 ft. minimum to 40 ft. maximum depth)	1,000	LF	10.00	10,000.00

ATTACHMENT NO. 1
GEB REQUISITION NO. 86-6 - DACW 33-85-D-0011
DELIVERY ORDER NO. 0008
INSPECTION AND EXPLORATION INSTRUCTIONS

PROJECT: Jonesport Harbor Navigation Improvements

SITE Jonesport Harbor, Maine.

PURPOSE: To determine foundation and excavation conditions for a proposed cellular steel sheet piling and rubble mound breakwater .

1. SCOPE OF INVESTIGATION.

a. Subsurface investigations include thirty-eight (38) machine probes.

b. The probes designated P-1 through P-38 shall be located by survey within a five (5) foot radius of the locations shown on the attached plans. Coordinates and ground elevations shall be accurately determined and recorded on field logs for each probe and boring location using the bench marks shown on the attached plan (Attach 2). Mean Low Water (MLW) shall be used for datum for all elevations. All probes (utilizing A rods) shall be driven to a refusal of fifty (50) blows with no penetration or bouncing refusal.

c. A geotechnical inspector shall perform field inspection for all machine probes.

2. SITE CONDITIONS.

a. The explorations will be performed in Sawyer Cove from approximately fifty (50) to eleven hundred (1100) feet off of Henry Point, Jonesport, Maine. The tide range is 12'± and depth of water is estimated to be 0-30 feet.

b. Information concerning tides, launching facilities, and other pertinent site conditions may be obtained from the Harbormaster, Mr. Barna B. Norton (207)497-5933.

3. RIGHTS OF ENTRY.

Rights of entry to include staging area, dock loading area and coordination with the Harbormaster, Mr. Barna B. Norton, 207-497-5933 is the responsibility of Atlantic Testing Laboratories.

4. COORDINATION.

Mr. James Blair, Corps of Engineers, 617-647-8396, shall be contacted by Atlantic Testing Laboratories one week before start of work. The field inspector shall provide daily telephone reports on daily progress, probes completed, blow counts and materials encountered, if discernable, to Mr. James Blair between 7:00 and 8:00 a.m. prior to start of each working day.

5. EXPLORATION NUMBERS.

Probings P-1 through P-38 shall be numbered FP-85-1 through FP-85-38 in order of completion. All explorations are shown on Plan of Explorations (Attach 2). More detailed plans and survey data was provided Atlantic on 21 October 1985.

6. GOVERNMENT REVIEW.

The Government will review the draft submittal as well as the completed work. Subsequent to such review, the Contractor shall accomplish any corrections which may be directed as the result of the Government review.

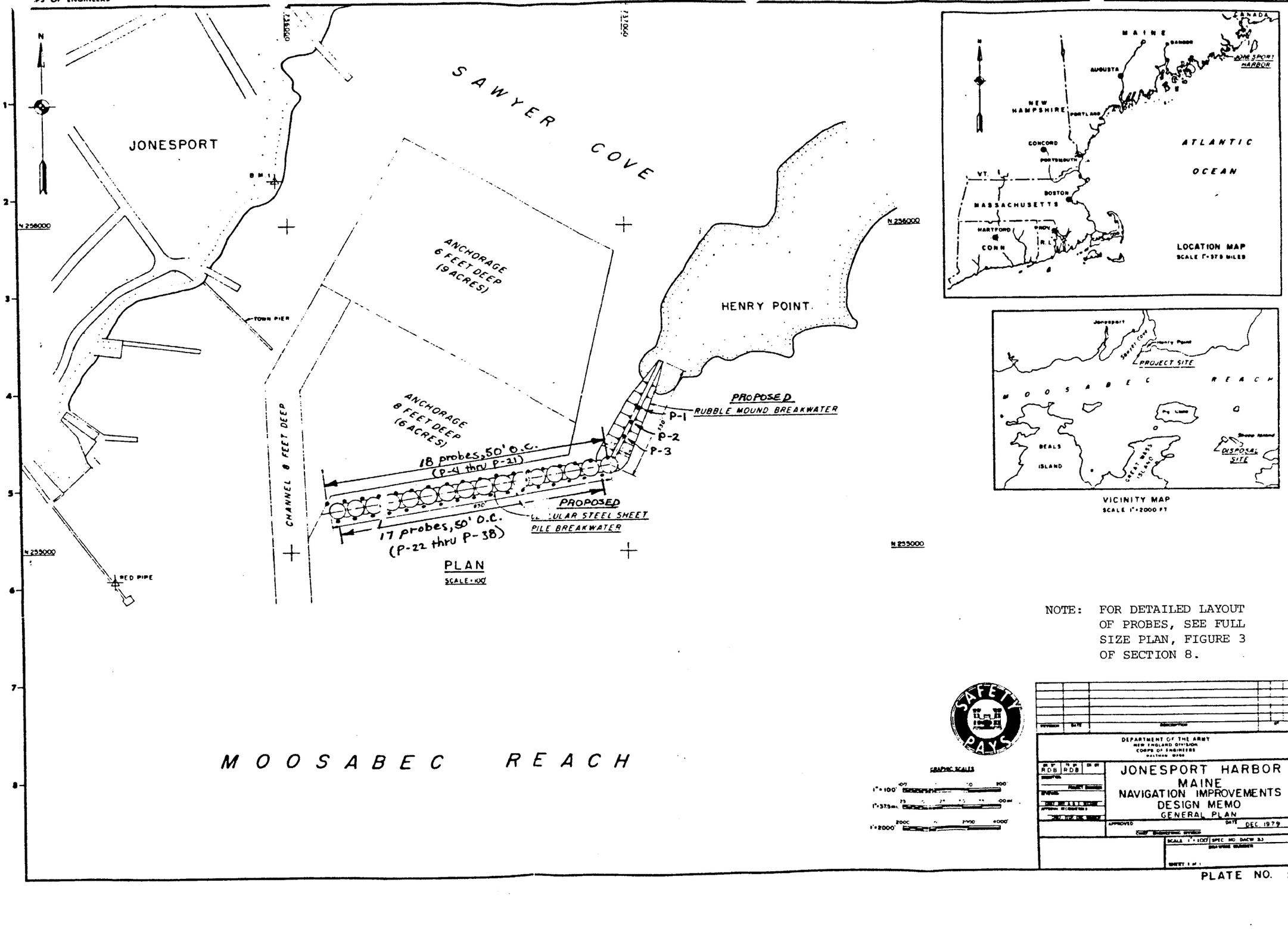
7. COMPLETION SCHEDULE.

Services under this delivery order shall start within seven calendar days after receipt of delivery order. Duration of field work is estimated to be two weeks. The geotechnical report shall be submitted in draft format for review (by the Government), postmarked no later than seven calendar days after completion of field work. Government review will take approximately ten calendar days from receipt of draft report. The final geotechnical report shall be submitted postmarked no later than seven calendar days after receipt of draft report with Government comments.

8. QUALITY CONTROL.

You will be held responsible for the quality of the maps submitted and for all damages caused the Government as a result of your negligence in the performance of any services furnished under the contract.

Although submissions required by your contract are technically reviewed by the Government, it is emphasized that your work must be prosecuted using proper internal controls and review procedures. The letter of transmittal for each submission which you make shall include a certification that the submission has been subjected to your own review and coordination procedures to insure (a) completeness for each discipline commensurate with the level of effort required for that submission, (b) elimination of conflicts, errors and omissions, and (c) the overall professional and technical accuracy of the submission. Documents which are significantly deficient in any of these areas will be returned to you for correction and/ or upgrading prior to our completing our review. Contract submission dates will not be extended if a resubmission of draft material is required for this reason.



VICINITY MAP
SCALE 1"=2000 FT

NOTE: FOR DETAILED LAYOUT OF PROBES, SEE FULL SIZE PLAN, FIGURE 3 OF SECTION 8.

GRAPHIC SCALES

1"=100' 0 100'
1"=375m. 0 100m
1"=2000' 0 2000' 4000'

SAFETY PAYS

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM MASS.

DR BY	TR BY	CH BY
RDB	RDB	

JONESPORT HARBOR
MAINE
NAVIGATION IMPROVEMENTS
DESIGN MEMO
GENERAL PLAN

APPROVED DATE DEC 1979
CHIEF ENGINEERING DIVISION

SCALE 1"=100' SPEC NO DACW 33
DRAWING NUMBER

SHEET 1 OF 1

PLATE NO. 1

Not updated in latest USC&GS level run as of 2/80

2/13/69

8411922 (New No.)

MAINE - 6

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TIDAL BENCH MARKS

Jonesport, Sawyer Cove
Lat. 44°31'.8; Long. 67°35'.9

BENCH MARK 1 (1948) is a standard disk, stamped "NO 1 1948", set on top and about in center of 8-foot by 5-foot bedrock at edge of rocky bank 2 feet above ground level. It is 99 feet south of centerline of black-top street across street and southeast of Sawyer Memorial Congregational Church and 42 feet south of Bench Mark J 149. Elevation: 19.26 feet above mean low water.

BENCH MARK 4 (1910) is a chiseled triangle cut on highest point of rock in a group of rocks extending toward the water about 175 yards south and across black-top street of Sawyer Memorial Congregational Church. It is 151 feet southwest of Bench Mark 1 and 34½ feet northeast of large eyebolt fastened in top of another rock. Elevation: 16.75 feet above mean low water.

BENCH MARK 5 (1918) is a standard disk, stamped "NO 5 1918", set in top of 4-foot by 6-foot buried boulder flush with ground of rock ledge 170 feet north of Bench Mark 4. It is 170 feet southeast of and across street from Sawyer Memorial Congregational Church, 20 feet south of centerline of black-top street and 57 feet east of east side of a 2-story building. Elevation: 25.48 feet above mean low water.

BENCH MARK J 149 (1962) is a standard disk, stamped "J 149 1962", set on top and near the center of a 20-by 15-foot bedrock projecting 1 foot above the level of the ground, 59 feet south of the centerline of the black-top street, 242 feet southeast of the Sawyer Memorial Congregational Church, 35 feet north of the north bank of the cove, 72 feet southeast of Bench Mark 5, 42 feet north of Bench Mark 1 and about 2 feet below the level of the street. Elevation: 20.45 feet above mean low water.

(OVER)

Jonesport, Sawyer Cove (Cont'd)

Mean low water at Jonesport, Sawyer Cove, is based on 34 high waters and 33 low waters, June 3-20, 1959, reduced to mean values. Elevations of other tide planes referred to this datum are as follows:

	Feet
Mean high water	11.50
Mean tide level	5.75
Mean low water	0.00

The estimated highest water level to the nearest half foot is ~~15½~~ feet above mean low water. The estimated lowest water level to the nearest half foot is 4 feet <u>below</u> mean low water. 16 ft.

U.S.A. Engineer Division
Corps of Engineers
New England

SURVEY STATION DATA

Waterway: JONESPORT HARBOR

Station: "RED PIPE"

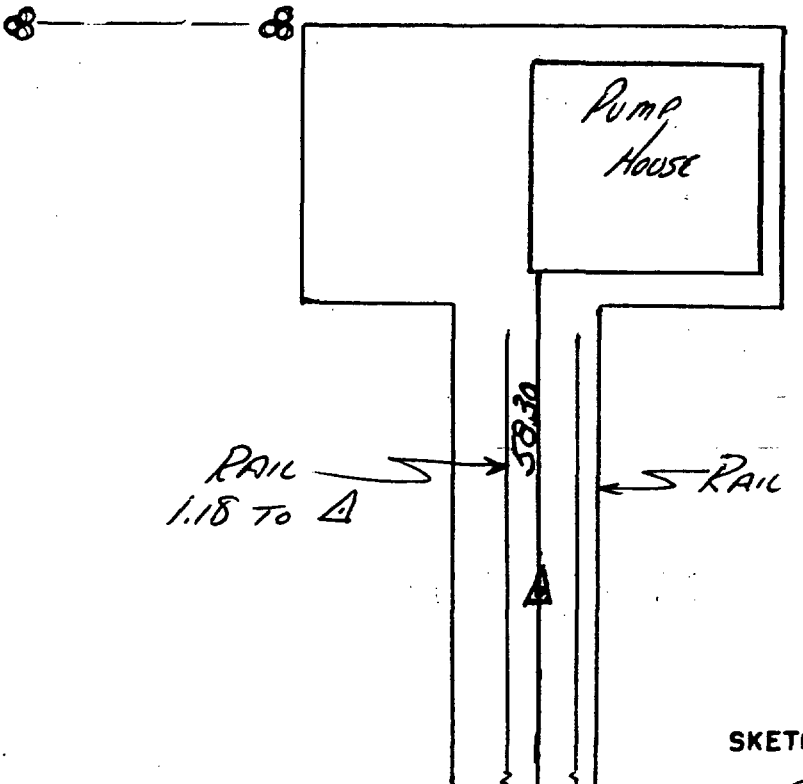
Coordinates:	N or ~~S~~	E or ~~W~~
	254914.47	735479.92

53

Origin _____

REFERENCE ANGLES

00° 00' 00" on	ANGLE	TO	00° 00' 00" on	ANGLE	TO



REFERENCES:
FIELD BOOK NO. _____

MOOSABEC REACH

← FLOOD

EBB →

SKETCH: NOT TO SCALE

REMARKS: A CROSSCUT ON TOP OF 6" WATER PIPE ON LOOK BACK PIER.

NED FORM JUN 65 539

(8)

U.S.A. Engineer Division
Corps of Engineers
New England

SURVEY STATION DATA

Waterway: JONESPORT HARBOR

Station: "HENRY"

N or ~~S~~	E or ~~W~~
255543.92	737067.61

Coordinates:

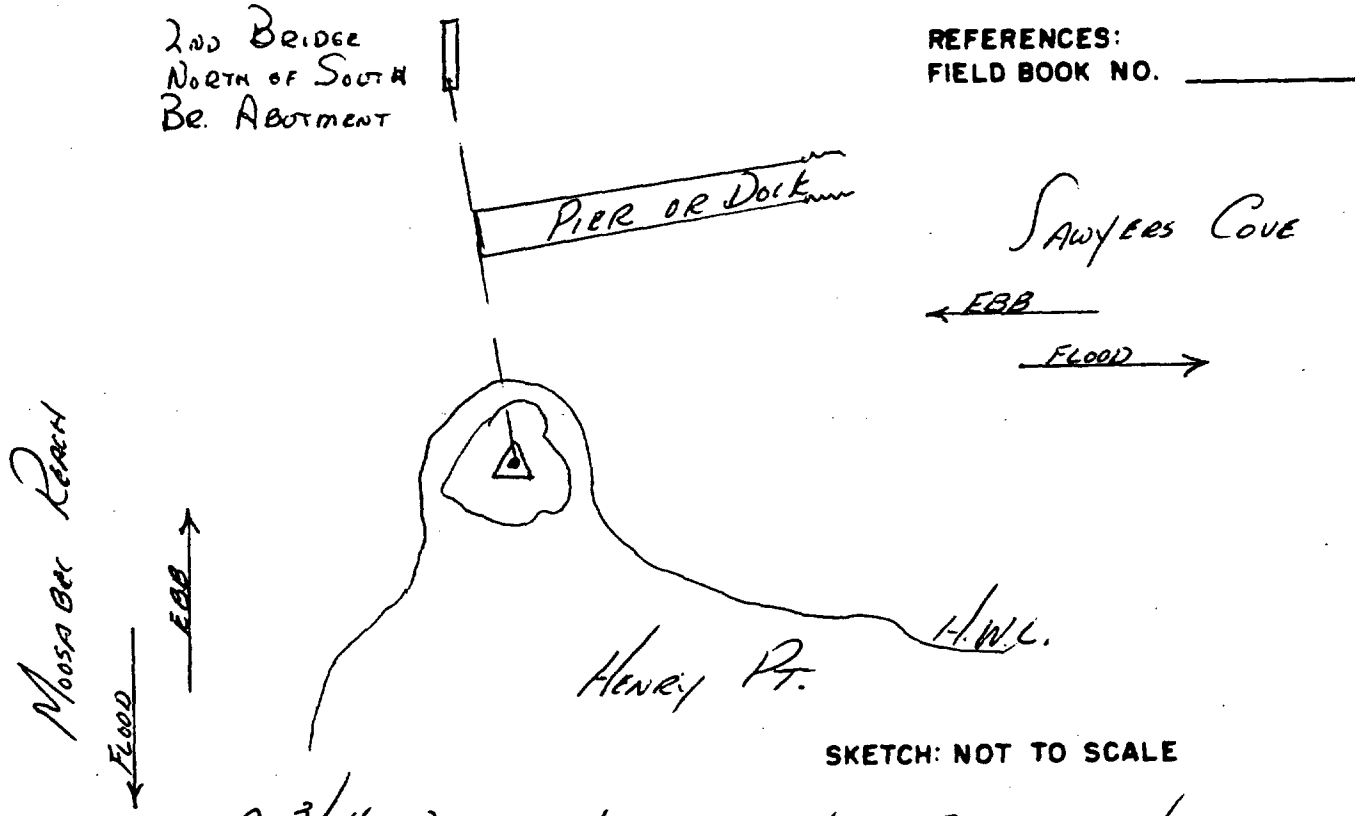
54

Origin _____

REFERENCE ANGLES

00° 00' 00" on	ANGLE	TO	00° 00' 00" on	ANGLE	TO

REFERENCES:
FIELD BOOK NO. _____



SKETCH: NOT TO SCALE

REMARKS: A 3/8" DRILL HOLE IN HIGH POINT ON PROMINENT LEDGE @ HENRY POINT, SURROUNDED BY THREE SMALLER DRILL HOLES USED FOR TRIPOD SHOES.

NED FORM JUN 55 539

(9)

U.S.A. Engineer Division
Corps of Engineers
New England

SURVEY STATION DATA

Waterway: JONESPORT HARBOR

Station: A B.M. #1

Coordinates:	N or ~~S~~	E or ~~W~~
	256139.80	735964.62

55

Origin _____

REFERENCE ANGLES

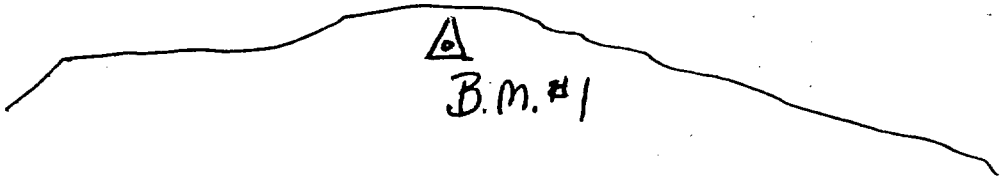
00° 00' 00" on	ANGLE	TO	00° 00' 00" on	ANGLE	TO

SAWYERS COVE

FLOOD ←

EBB →

REFERENCES:
FIELD BOOK NO. _____



SKETCH: NOT TO SCALE

REMARKS: SEE TIDAL B.M. SHEET FOR DESCRIPTION.

NED FORM JUN 65 539

(10)

U.S.A. Engineer Division
Corps of Engineers
New England

SURVEY STATION DATA

Waterway: JONESPORT HARBOR

Station: "NET"

Coordinates:	N or ~~S~~	E or ~~W~~
	2567045	736684.03

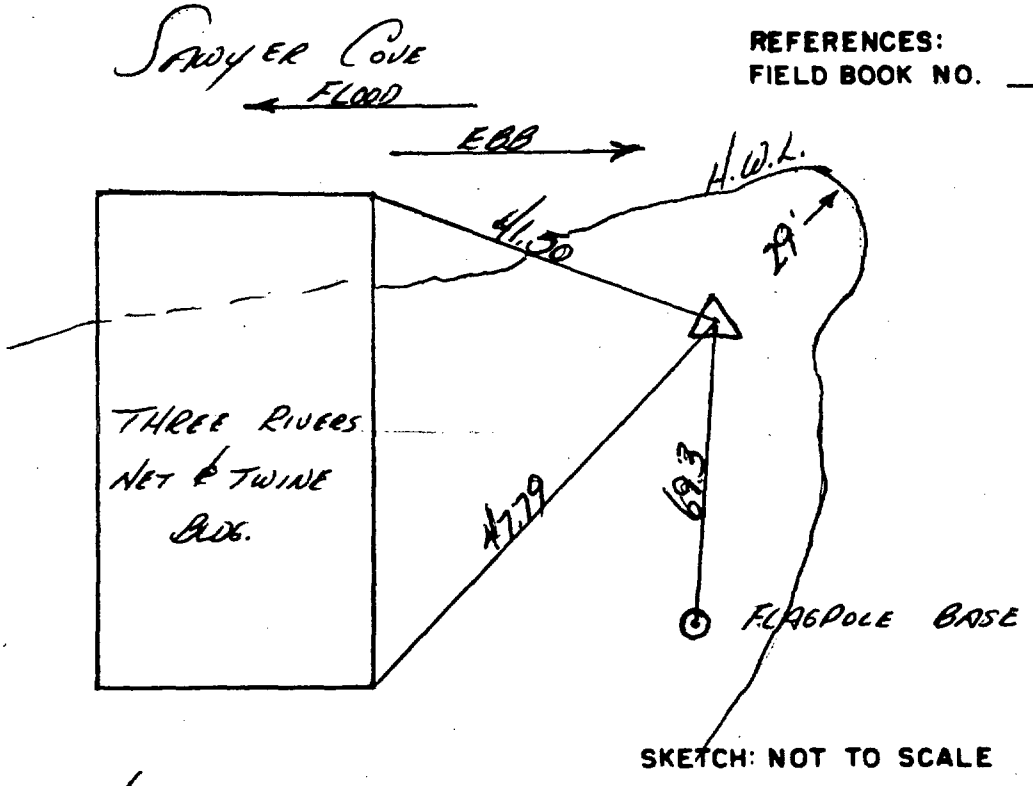
56

Origin _____

REFERENCE ANGLES

00° 00' 00" on	ANGLE	TO	00° 00' 00" on	ANGLE	TO

REFERENCES:
FIELD BOOK NO. _____



SKETCH: NOT TO SCALE

REMARKS: 3/8" DRILL HOLE IN LEDGE.

NED FORM JUN 65 539

b. Project Site

The project site was located on water in Sawyer Cove, just off land of Jonesport, Maine. The investigation covered an area approximately 50 ft wide extending southwest from Henry Point roughly 1100 ft. The cove area is the site of several moored fishing and pleasure boats. Project and probe location drawings are provided in Section 8.

c. Purpose

The purpose of the exploration was to extend probes into the soil below the water surface along the perimeter of the proposed breakwater. Information retrieved will be used by the Corps of Engineers to finalize the breakwater design.

d. Scope of Work

The scope of work under this delivery order consisted of advancing a machine probe to refusal, in 38 locations as noted from the print transmitted to us by the Corps of Engineers. Originally, two borings were to be part of the investigation but were cancelled prior to mobilization.

General inspection and exploration instructions were provided by the Army Corps of Engineers, New England Division, through the contracted "Specifications for Services and Equipment Necessary for Conducting Geotechnical Exploratory Work, Various Locations in New England, and New York" and through Delivery Order No. 0008 which has been included in Section 3a. Section 3a also contains benchmark and probe alignment information that was provided to us by the Corps. Specific instructions and changes during the course of work were given verbally during phone conversations through a Corps of Engineer representative and can be found listed in Table I and Table II of Section 5, herewith.

SECTION 4

QUALITY CONTROL

a. **General Certification Statement:**

I hereby certify, as a principal of Atlantic Testing Laboratories, Limited, that the reported records, equipment, and procedures were used to perform the subsurface exploration described herein. I also certify that the work was conducted in a professional manner and meets the requirements set forth in the work order. This report has been subject to my review and is both complete and technically accurate.

CERTIFIED 10 January 1986

Spencer F. Thew, P.E./L.S.
President

b. Records Taken

Horizontal and vertical control of each probe was set and recorded by an ATL Licensed Surveyor. A copy of these notes have been included in Section 9.

Pertinent probing information and procedures, including elevations, blow counts, etc. were noted on Forms NED 121, 58 and 58A provided for our use by the Corps. Section 8 contains a complete series of these logs for the total 38 probes along with location drawings.

Summary of daily activities and telephone conversations can be found in Tables I and II of Section 5. Also documented during the project operations, were safety meeting reports, located in Sections 7.

c. Equipment Used

All equipment and supplies were provided by Atlantic Testing Laboratories, Limited. A short description of the pertinent equipment and tools used during the exploration have been provided below:

- 16 ft x 20 ft pontoon float
- 5 hp Acker portable cathead and tripod
- 80 ft of AW rod
- service boat and motor
- 300 lb drive hammer
- transit
- range rod

d. Procedures

The 16 ft x 20 ft float was navigated to the general area to be investigated using the small service boat. Three to five anchors, on long lines, were then set and tied to the corners of the float. An ATL licensed surveyor located the float within a 5 ft radius of the proposed testing location. The anchor lines were all tightened holding the float in position for the duration of the exploration.

Coordinants of each testing location were determined using information provided to us by the Corps. Turning angles from a prescribed benchmark and stadia distance was used to physically define the site to be probed.

Elevations of the water surface and below water ground surface, using Mean Low Water (MLW) as a datum, were recorded which marked the beginning of the testing procedure. A 2-1/4" O.D. pointed rock piercing tip, followed by lengths of AW rod were driven using a 300 lb weight falling 18 inches. The blow count for each foot of penetration was noted for the full depth of exploration. All probes were driven to refusal which was defined by the Corps as 50 blows, with no penetration, bouncing refusal, or 100 plus blows per foot.

After probe refusal, tip and water surface elevations were recorded. Marked footages of deeper probes, which required substantial time, were affected by tidal fluctuation. Therefore, all drilling logs have been adjusted for tidal affects so that the final probe elevation, as surveyed, would match the depth totaled during exploration.

SECTION 5

SUMMARY OF DAILY ACTIVITIES

AND

TELEPHONE LOGS

TABLE I

SUMMARY OF ACTIVITIES

Date	Activity
2 Dec	Monday: - Mobilization to site of 320 sq ft float, probe driving equipment and men - (12:30 - 15:00) Dana Drake, ATL Surveyor, on site
3 Dec	Tuesday: - (06:30 - 17:00) Constructed float
4 Dec	Wednesday: - (07:00 - 08:30) Drillers finished erecting tripod and loading equipment on float - (08:30 - 09:00) Safety Meeting - (09:00 - 10:00) Move float from boat ramp to probe site P-3 - (10:00 - 10:10) Exploration of P-3 (FP-85-1), Depth 0' - (10:10 - 11:00) Move from P-3 to P-2 - (11:00 - 11:10) Exploration of P-2 (FP-85-2), Depth 0' - (11:10 - 11:50) Move from P-2 to P-1 - (11:50 - 12:00) Exploration of P-1 (FP-85-3), Depth 0' - (12:00 - 13:00) Lunch - (13:00 - 13:30) Move from P-1 to P-4 - (13:30 - 13:50) Exploration of P-4 (FP-85-4), Depth 8.6' - (13:50 - 14:00) Move from P-4 to P-5 - (14:00 - 14:40) Exploration of P-5 (FP-85-5), Depth 19.4' - (14:40 - 14:50) Move from P-5 to P-6 - (14:50 - 15:40) Exploration of P-6 (FP-85-6), Depth 36.0' - (15:40 - 16:30) Move and anchor float for night
5 Dec	Thursday: - (07:00 - 08:00) Move onto Probe P-7 - (08:00 - 10:00) Exploration of P-7 (FP-85-7), Depth 42.1' - (10:00 - 10:40) Move from P-7 to P-35 - (10:40 - 13:00) Start exploration of P-35 (FP-85-8) - (13:00 - 14:00) Stand by awaiting Corps decision regarding maximum blow count or depth of probes - (14:00 - 16:00) Continued exploration of P-35
6 Dec	Friday: - (07:00 - 11:00) Finished exploration of P-35 (FP-85-8), depth 56.7' - (11:00 - 11:30) Stand by awaiting Corps decision regarding maximum blow count or depth of probes - (11:30 - 12:30) Move from P-35 to P-21 - (12:30 - 13:40) Exploration of P-21 (FP-85-9), depth 31.3' - (13:40 - 13:50) Move from P-21 to P-22 - (13:50 - 14:10) Exploration of P-22 (FP-85-10), depth 23.7' - (14:10 - 14:20) Move from P-22 to P-23 - (14:20 - 14:40) Exploration of P-23 (FP-85-11), depth 17.3' - (14:40 - 14:50) Move from P-23 to P-24 - (14:50 - 15:00) Exploration of P-24 (FP-85-12), depth 22.5' - (15:00 - 15:30) Move from P-24 to P-18 - (15:30 - 15:40) Exploration of P-18 (FP-85-13), depth 20.2' - (15:40 - 16:30) Secured equipment

Date	Activity
7 Dec	Saturday:
	- (07:00 - 07:40) Moved onto P-20
	- (07:40 - 08:00) Exploration of P-20 (FP-85-14), depth 24.5'
	- (08:00 - 08:10) Move from P-20 to P-19
	- (08:10 - 08:20) Exploration of P-19 (FP-85-15), depth 19.0'
	- (08:20 - 09:20) Move from P-19 to P-17
	- (09:20 - 09:50) Exploration of P-17 (FP-85-16), depth 28.7'
	- (09:50 - 10:10) Move from P-17 to P-16
	- (10:10 - 10:30) Exploration of P-16 (FP-85-17), depth 17.7'
	- (10:30 - 10:50) Move from P-16 to P-15
	- (10:50 - 11:00) Exploration of P-15 (FP-85-18), depth 13.7'
	- (11:00 - 11:20) Move from P-15 to P-14
	- (11:20 - 11:30) Exploration of P-14 (FP-85-19), depth 16.8'
	- (11:30 - 11:40) Move from D-14 to P-13
	- (11:40 - 12:00) Exploration of P-13 (FP-85-20), depth 17.1'
	- (12:00 - 12:10) Move from P-13 to P-12
	- (12:10 - 12:40) Exploration of P-12 (FP-85-21), depth 28.3'
	- (12:40 - 13:50) Move from P-12 to P-11
	- (13:50 - 14:40) Exploration of P-11 (FP-85-22), depth 26.6'
	- (14:40 - 15:30) Secure equipment
8 Dec	Sunday:
	- (07:00 - 08:10) Move onto P-32
	- (08:10 - 09:00) Exploration of P-33 (FP-85-23), depth 23.2'
	- (09:00 - 09:30) Move from P-32 to P-31
	- (09:30 - 10:00) Exploration of P-31 (FP-85-24), depth 24.9'
	- (10:00 - 10:40) Move from P-31 to P-32
	- (10:40 - 11:40) Exploration of P-30 (FP-85-25), depth 24.7'
	- (11:40 - 12:10) Move from P-30 to P-29
	- (12:10 - 12:30) Exploration of P-29 (FP-85-26), depth 20.7'
	- (12:30 - 13:20) Move from P-29 to P-28
	- (13:20 - 13:30) Exploration of P-28 (FP-85-27), depth 18.2'
	- (13:30 - 13:40) Move from P-28 to P-27
	- (13:40 - 13:50) Exploration of P-27 (FP-85-28), depth 9.8'
	- (13:50 - 14:00) Move from P-27 to P-26
	- (14:00 - 14:10) Exploration of P-26 (FP-85-29), depth 15.4'
	- (14:10 - 14:20) Move from P-26 to P-25
	- (14:20 - 15:00) Exploration of P-25 (FP-85-30), depth 26.6'
	- (15:00 - 16:00) Secured equipment
9 Dec	Monday:
	- (07:00 - 07:30) Safety meeting
	- (07:30 - 08:00) Moved onto P-10
	- (08:00 - 08:30) Exploration of P-10 (FP-85-31), depth 18.5'
	- (08:30 - 09:00) Move from P-10 to P-9
	- (09:00 - 10:20) Exploration of P-9 (FP-85-32), depth 40.4'
	- (10:20 - 10:30) Move from P-9 to P-8
	- (10:30 - 13:10) Exploration of P-8 (FP-85-33), depth 60.3'
	- (13:10 - 13:30) Move from P-8 to P-33
	- (13:30 - 15:30) Exploration of P-33 (FP-85-34), depth 57.9'
	- (15:30 - 16:00) Secured equipment

Date	Activity
10 Dec	Tuesday: - (07:00 - 09:00) Equipment repair - (09:00 - 09:30) Moved onto P-34 - (09:30 - 11:00) Exploration of P-34 (FP-85-35), depth 60.2' - (11:00 - 11:30) Move from P-34 to P-36 - (11:30 - 12:10) Exploration of P-36 (FP-85-36), depth 35.1' - (12:10 - 12:30) Move from P-36 to P-37 - (12:30 - 13:00) Exploration of P-37 (FP-85-37), depth 25.3' - (13:00 - 13:10) Move from P-37 to P-38 - (13:10 - 13:20) Exploration of P-38 (FP-85-38), depth 15.8' - (13:20 - 16:00) Moved to boat ramp area and secured equipment
11 Dec	Wednesday: - (08:00 - 16:00) Disassembled float and picked up equipment - Demobilization of Licensed Surveyor
12 Dec	Thursday: - Demobilization of Geotechnical Inspector - (08:00 - 16:00) Preparation of equipment for demobilization
13 Dec	Friday: - Demobilization of remaining crew and equipment

TABLE II

LOG OF TELEPHONE CONVERSATIONS

Date	Comments
19 Nov	Tuesday (09:00 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) ATL - weather may affect stand by time Corps - job is critical Corps - Jim Blair will return to office on 11/25/85
	Tuesday (10:30 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) ATL - propose start date of 12/2/85 ATL - will use a portable cathead drive unit and a tripod on a 16' x 20' raft ATL - no probe end type was designated, will use pointed end
20 Nov	Wednesday (08:30 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) ATL - request benchmark coordinants ATL - two delivery order numbers appear - 0008 and 0009 Corps - D.O.#0009 is correct ATL - no information on two borings requested in the delivery order Corps - all borings have been cancelled
	Wednesday (11:30 hrs.) Terry Wong (Corps) to Paul Fisher (ATL) Corps - benchmark information should have been transmitted ATL - request change in scheduled survey crew Corps - Corps soil logs will be used for logging probes
	Wednesday (13:20 hrs.) Terry Wong (Corps) to Paul Fisher (ATL) Corps - send letter prorating surveyor time and equipment ATL - a surveyor will be required on site for the full duration
21 Nov	Thursday (11:00 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) Corps - confirmed start date of 12/2/85, send letter ATL - benchmark information still needed
	Thursday (13:30 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) Corps - will send benchmark information by mail to Canton
25 Nov	Monday (13:30 hrs.) Paul Fisher (ATL) to Jim Blair (Corps) Corps - benchmark information has been sent Corps - had talk with Dana Drake (ATL surveyor) regarding needed data
27 Nov	Wednesday (09:00 hrs.) Paul Fisher (ATL) to Jim Blair (Corps) Corps - any moving of float will be charged as on site moves Corps - tidal observation will not be required Corps - log information on Forms 121, 58 and 58A Corps - if refusal is over the contracted 40 ft depth, an additional schedule will be negotiated Corps - probe location sketches may be shown on one drawing
3 Dec	Tuesday (08:45 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) ATL - rig, float and men on site yesterday (2 Dec 85) ATL - expect to have rig and float erected today
4 Dec	Wednesday (08:20 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) ATL - equipment set up and probing just beginning

Date	Comments
5 Dec	Thursday (07:15 hrs.) Paul Fisher (ATL) to Ron de Filippo (Corps) ATL - job progress, 6 probes completed 4 Dec 85
	Thursday (13:00 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) ATL - maximum blow count or depth of probes
	Thursday (13:30 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) Corps - probe to bedrock until a decision could be made regarding end of probe exploration
6 Dec	Friday (07:45 hrs.) Paul Fisher (ATL) to Barna B. Norton (Harbor Master) ATL - regarding boats anchored in probing area
	Friday (08:00 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) ATL - maximum blow count or depth of probes Corps - no decision
	Friday (11:00 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) Corps - move from the northeast to southwest and continue probing Corps - call Monday for decision regarding deeper probes
9 Dec	Monday (09:00 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) ATL - job progress, 31 probes completed Corps - call later for decision on maximum blow count or depth of probes
	Monday (09:20 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) Corps - decision to stop exploration at 100 blows/ft
10 Dec	Tuesday (07:30 hrs.) Paul Fisher (ATL) to Mark Vance (Corps) ATL - job progress, 34 probes completed
11 Dec	Wednesday (08:00 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) ATL - job progress, all 38 probes completed
	Wednesday (10:00 hrs.) Paul Fisher (ATL) to Paul L'Heureux (Corps) ATL - dictated probe refusal elevations
16 Dec	Monday (13:30 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) Corps - no stand by time for assembly or disassembly of float Corps - surveyor on stand by time if work is held up by Corps
	Monday (15:20 hrs.) Terry Wong (Corps) to Paul Fisher (ATL) Corps - send letter regarding pay schedule for probes over 40 ft
17 Dec	Tuesday (08:30 hrs.) Paul Fisher (ATL) to Terry Wong (Corps) Corps - no daily charge for equipment en route Corps - one way straight line mileage, 218 miles Corps - Geotechnical time can be charged during transit Corps - OK to send report out over the weekend (12/21)

SECTION 6

CHAIN OF CUSTODY LOGS

ATLANTIC TESTING LABORATORIES, Limited

CHAIN OF CUSTODY LOG

PROJECT: Jonesport Harbor, ME

ITEMS:

Tubes _____

Bottles _____

Jar Samples _____

Core Boxes _____

Sampling Logs _____

Date & Time Received	Date & Time Transferred	Comments	Custodian
NONE			

NOTE: NO SAMPLES TAKEN

SECTION 7

SAFETY REPORTS

WEEKLY SAFETY MEETING

FOR THE CONSTRUCTION INDUSTRY

ıfety Meeting Outlines Box 294 Park Forest, IL 60466 312-481-6930 No. 51 Vol 8 Week of

Company Name ATLANTIC TESTING LAB **Job Name** JONESPORT HARBOR **Date** 12/4/85

ALCOHOL & MARIJUANA

Alcohol and marijuana are two of the most commonly abused drugs affecting our nation's industry and your safety.

Alcohol consumption has been encouraged by example and advertising for years, and is presently used by an estimated 100 million Americans. When alcohol is consumed, it is absorbed directly into the blood stream -- the faster it's consumed, the higher its percentage in the blood, and the greater effect it will have on the brain. Remember the average body can only get rid of one ounce of alcohol each hour.

Marijuana is a strong drug containing 421 chemicals, and the one that gets people 'HIGH' is referred to as THC. In recent years the percentage of THC in cultivated marijuana has greatly increased, making it more dangerous than ever. Smoking just one 'JOINT' can introduce sufficient amounts of THC into the body and brain to cause lingering effects for as long as 21 days, and in addition, will deposit more cancer causing agents than a whole pack of tobacco cigarettes.

THC has a negative influence on the normal growth of all body cells. A recent study of long term marijuana users revealed brain shrinkage in everyone tested. This abnormal cell behavior prevents the body's immune system from working properly to fight off disease and disturbs the balance of hormones that affect reproduction, endangering the health and future of unborn children.

The worst effects of alcohol and marijuana are the injuries and deaths that those who use them cause to innocent people like YOU. Be on guard and give those you suspect plenty of space, both on the job and on the road.

SAFETY REMINDERS ..... OUR JOYFUL GREETINGS TO EACH OF YOU
A SAFE & HAPPY HOLIDAY SEASON & AN ACCIDENT FREE NEW YEAR

Special Topics For Your Project LOCAL EMERGENCY NUMBERS: MARINE PATROL 497-5458, DIVERS 497-5771, WASH. CO. REC. 800-432-7303, MACHIAS HOSP. 244-3356, JONESPORT FIRE DEPT 497-2993, USCG 497-2200

Employee Safety Recommendations KEEP TRACK OF WEATHER AND TIDES

Meeting Attended By

PAUL FISHER	ATL		
DANA DRAISE	ATL		
GARY CAMBRIDGE	ATL		
JIM BOYER	ATL		

Supervisors Signature Paul Fisher

WEEKLY SAFETY MEETING

NEDSO

Date held 12/4/85

THRU: Area Engineer, NEW ENGLAND Area

Time 0830

TO: Safety Office, NED

1. Weekly safety meeting was held this date for the following personnel:

Contract No. DACW-33-85-D-0011 0.0. #8 Contractor ATLANTIC TESTING LAB.

Conducted By PAUL FISHER All personnel present (Contr) 4
(Sub) —
(Govt) —

Subjects discussed (Note, delete, or add):
EM 385-1-1, Section: _____

X Accident Prevention Plan

X Individual Protective Equipment - GLOVES, BOOTS, WARM CLOTHING

Prevention of Falls -

X Back Injury, Safe Lifting Techniques -

Fire Prevention -

X Sanitation, First Aid, Waste Disposal - NOTE EMERGENCY NO.

X Tripping Hazards - trash, hose, nails in lumber - ROPES, ANCHORS

Staging, Ladders, Concrete Forms, Safety Nets -

X Hand Tools, Portable Power Tools, Woodworking Machinery - CAT HEAD RIG

X Equipment Inspection & Maintenance (Zero Defects) -

X Hoisting Equipment - CAT HEAD RIG

X Ropes, Hooks, Chains and Slings -

Electrical Grounding, Temporary Wiring, GFCI -

Lockouts for safe clearance procedures - electrical, pressure, moving parts -

Welding, Cutting -

Excavations -

Loose Rock and Steep Slopes -

Explosives -

X Water Safety - BOATING + WORKING ON FLOAT

Toxic materials - hazards, MSDS, respiratory, ventilation -

Other - DONT FALL INTO THE WATER

Prepared by FISHER Title ENG

2. Forwarded.

CF: EXPOSURE TIME INCLUDING SAT. + SUN FOR 12/2 TO 12/8 200 HRS. ONLY ATL PERSONNEL ON SITE

Signature _____
Resident Engineer

NED APP FL 251

WEEKLY SAFETY MEETING

FOR THE CONSTRUCTION INDUSTRY

afety Meeting Outlines Box 294 Park Forest, IL 60466 312-481-6930 No. 52 Vol 8 Week of

Company Name ATLANTIC TESTING LAB Job Name JONESPORT HARBOR Date 12/9/85

BAD SAFETY HABITS

The word safety refers to your freedom from danger, injury and damage, and to your personal security. It's what America was founded on. It's what everyone wants, but doesn't always get. It requires a lot of effort to have and to keep.

In recent years there has been a concentrated effort in our country to reduce accidents and save lives -- in the process, the word safety has been used so often that many of you may think of it as a 'preaching word', or a word that forces you to alter your ways or change bad habits.

Instead, when you hear the word safety, think of it as a word that applies to the way you do everything in life. If you have bad safety habits, you're just not doing things as well as you should!

For example: If you're driving safely, you're simply operating your vehicle as intended and obeying the laws, no more, no less. If you're working with a power tool that requires eye protection, don't fight it. Safety glasses are simply a necessary accessory to the proper use of that tool. If you're working at home, take the time to use a ladder instead of standing on a chair that was made to sit on.

This is a good time of year to think about all your bad safety habits, and then to make a resolution to correct them in 1986.

Improving your bad safety habits will require concentration and effort, but the results will help make you a more responsible and desirable employee, improved driver, and a good example to those around you -- and your bonus for this effort is -- a greatly reduced chance of becoming an accident statistic in 1986.

SAFETY REMINDERS

HAVE A GREAT TIME AS YOU CELEBRATE NEW YEARS EVE
BUT PLEASE -- IF YOU DRINK
LET SOMEONE WHO HASN'T DRIVE HOME.

Special Topics For Your Project

Employee Safety Recommendations

Meeting Attended By

PAUL FISHER
DANA DRAKE
GARY CAMBRIDGE
JIM BOYER

Supervisors Signature Paul M Fisher

These instructions do not supersede local, state or federal regulations

WEEKLY SAFETY MEETING

NEDSO

Date held 12/9/85

THRU: Area Engineer, NEW ENGLAND Area

Time 0700

TO: Safety Office, NED

1. Weekly safety meeting was held this date for the following personnel:

Contract No. DACW-33-85-D-0011 00, #8 Contractor ATLANTIC TESTING LAB

Conducted By PAUL FISHER All personnel present (Contr) 4
(Sub) 0
(Govt) 0

Subjects discussed (Note, delete, or add):
EM 385-1-1, Section: _____

Accident Prevention Plan

X Individual Protective Equipment -

Prevention of Falls -

X Back Injury, Safe Lifting Techniques -

Fire Prevention -

Sanitation, First Aid, Waste Disposal -

X Tripping Hazards - trash, hose, nails in lumber - ROPES, STEAL RODS ON DECK

Staging, Ladders, Concrete Forms, Safety Nets -

Hand Tools, Portable Power Tools, Woodworking Machinery -

X Equipment Inspection & Maintenance (Zero Defects) -

X Hoisting Equipment -

X Ropes, Hooks, Chains and Slings - CAT HEAD ROPE

Electrical Grounding, Temporary Wiring, GFCI -

Lockouts for safe clearance procedures - electrical, pressure, moving parts -

Welding, Cutting -

Excavations -

X Loose Rock and Steep Slopes - SLIPPERY ROCK

Explosives -

X Water Safety -

Toxic materials - hazards, MSDS, respiratory, ventilation -

Other -

Prepared by FISHER Title ENG

2. Forwarded.

EXPOSURE TIME FROM 12/9 TO 12/11
CF: ~96 HRS

Signature _____
Resident Engineer

NED APP FL 251

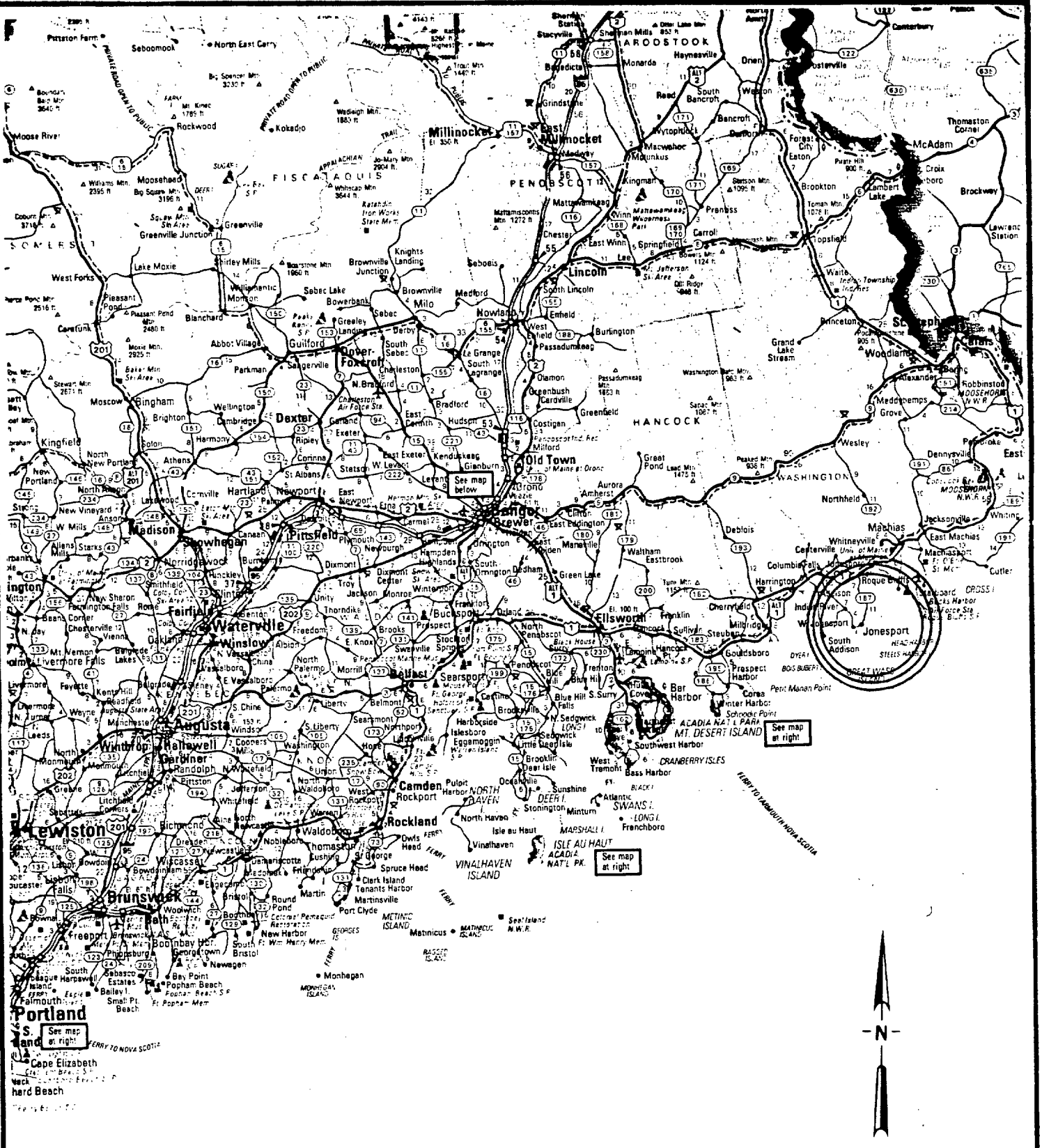
SECTION 8

FIELD INSPECTOR'S LOGS

a. Figure 1 - General Project Map

FIGURE 1

GENERAL PROJECT MAP

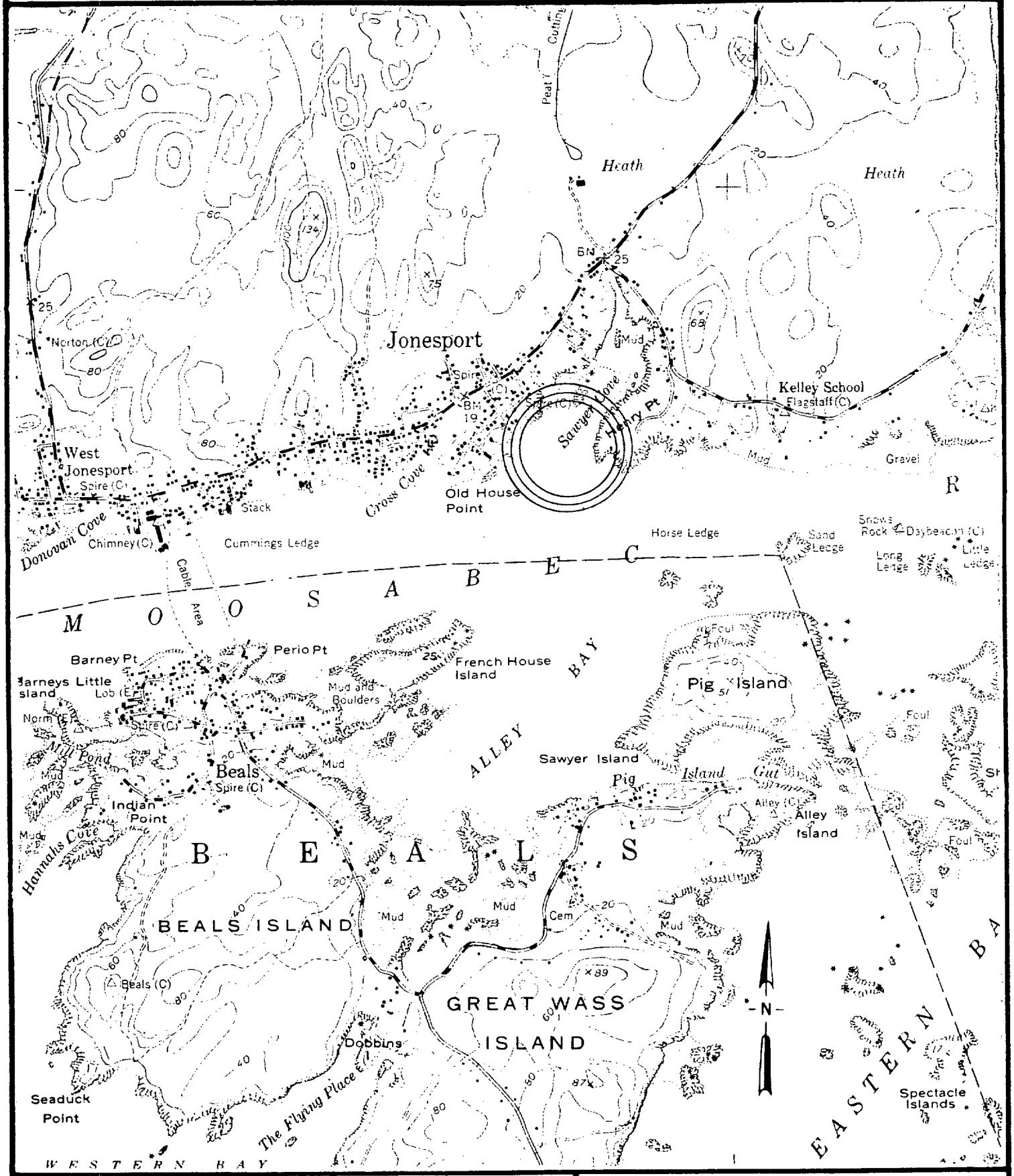


PROJECT No CD010-85	SCALE: 1" = 21 mi	MAINE

b. Figure 2 - Site Location Map

FIGURE 2

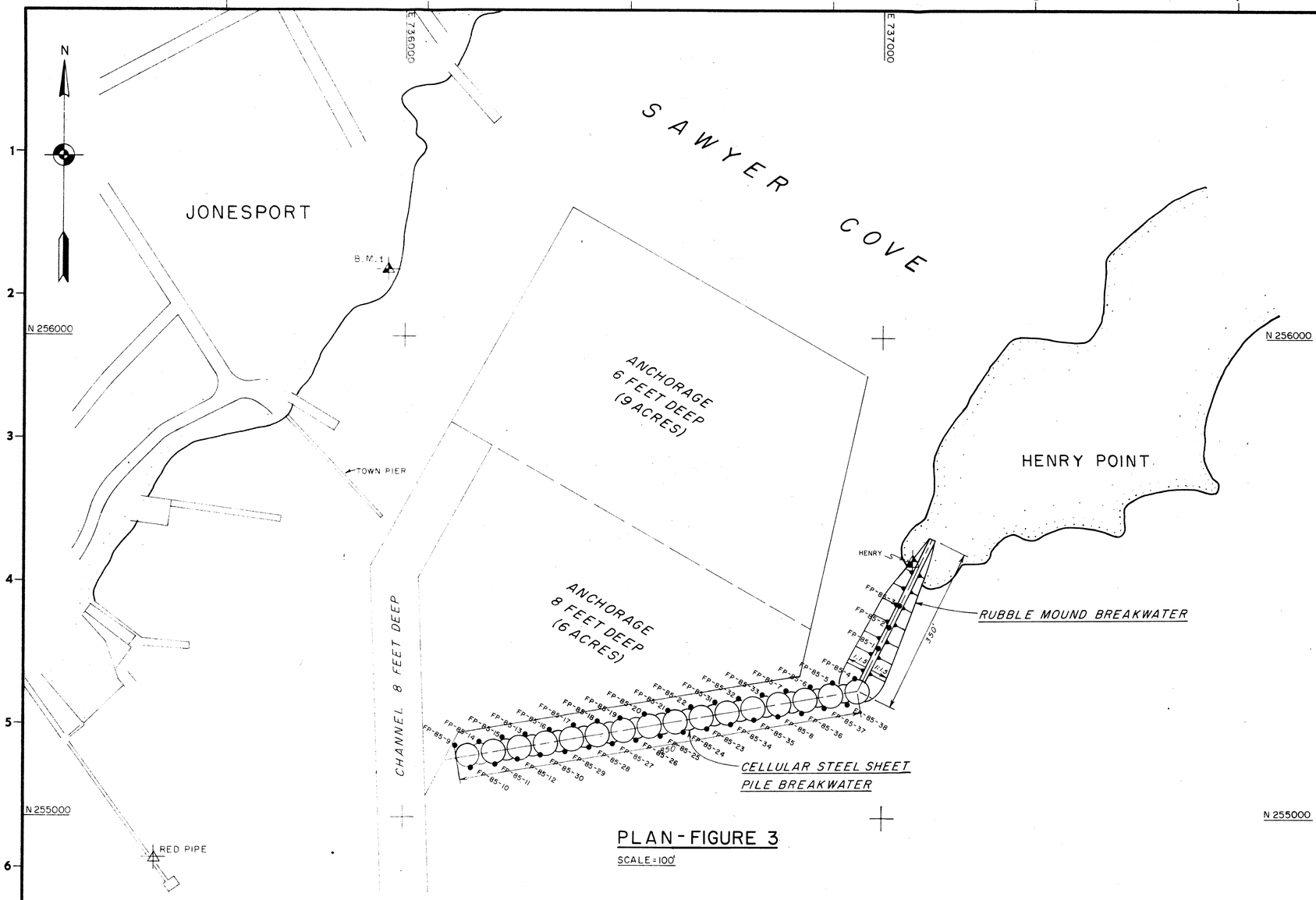
SITE LOCATION MAP



PROJECT No.	SCALE:	U.S.G.S. QUADRANT:
CD010-85	1:24000	Jonesport, ME

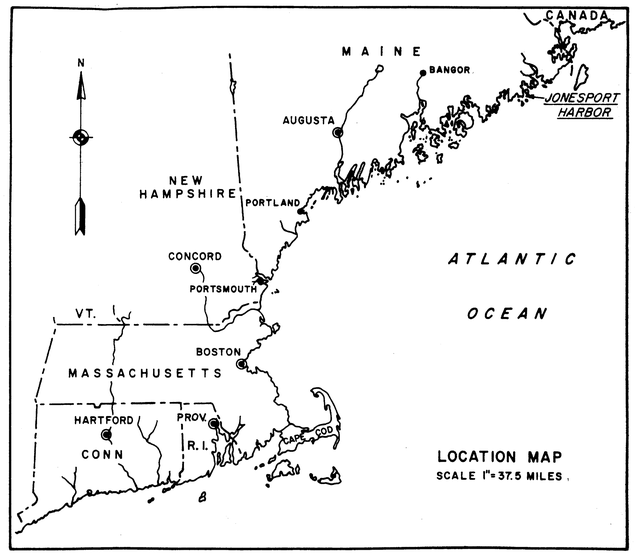
c. Figure 3 - Probe Location Plan

CORPS OF ENGINEERS — U. S. ARMY



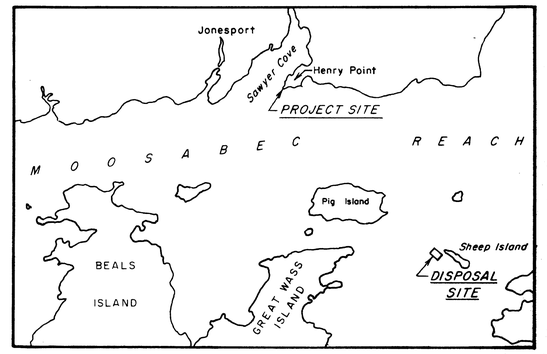
PLAN - FIGURE 3

SCALE = 100'



LOCATION MAP

SCALE 1"=37.5 MILES



VICINITY MAP

SCALE 1"=2000 FT.

N 255000

M O O S A B E C R E A C H

GRAPHIC SCALES

1" = 100' 100' 0 100' 200'

1" = 37.5 mi. 75 0 25 50 75 100 mi

1" = 2000' 2000' 0 2000' 4000'

LEGEND

FP - 85 - xx : FOUNDATION PROBE LOCATION

: SURVEY POINTS

REVISION	DATE	DESCRIPTION	BY
1	1/10/86	LOCATED FOUNDATION PROBES	KA

DEPARTMENT OF THE ARMY
NEW ENGLAND DIVISION
CORPS OF ENGINEERS
WALTHAM, MASS.

DR. BY	TR. BY	CK. BY
R.D.B.	R.D.B.	

SUBMITTED: PROJECT ENGINEER

REVIEWED: CHIEF, NAV. & B. E. SECTION

APPROVAL RECOMMENDED: CHIEF, TECH. ENG. BRANCH

APPROVED DATE DEC. 1979

CHIEF, ENGINEERING DIVISION

JONESPORT HARBOR
MAINE
NAVIGATION IMPROVEMENTS
DESIGN MEMO
GENERAL PLAN

PROBE LOCATION PLAN
JONESPORT HARBOR
PROJECT NO. CD 010-85
FIGURE 3

SCALE 1" = 100' | SPEC. NO. DACW 33

DRAWING NUMBER

SHEET 1 of 1

d. Probing Logs

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EP85-1 ~~Draw.~~ ~~(Casing)~~ P-3 — Boring Started 12/4/85

Co-ordinates: N 255356 E 736995 — Boring Completed 12/4/85

Drilled by Cambridge + Boyer — Report Submitted

Purpose of Exploration Foundation Investigation for a proposed breakwater

Elevation Top of Hole -5.6 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 0 Feet

Elevation Top of Rock -5.6 MLW ~~M.S.L.~~

Elevation Bottom of Hole -5.6 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 0 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth sea level

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	0	2 1/4" OD Pointed Probe

INDEX

Prepared by FISHER — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

MED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 1 of 2 Pages

Boring No. EP85-1 Desig. P3 Diam. (Casing) —

Co-ordinates: N 255356 E 736995

Elevation Top of Boring -5.6 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 10/4/85

Total Overburden Drilled 0 Feet — Hammer Drop 1.5' — Boring Completed 10/4/85

Elevation Top of Rock -5.6 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -5.6 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 0 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HD Acker

Core Recovered — Ft. — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 1"= 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
				60/0"	2 1/4" OD Pointed Probe ?	probe directly on rock

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor — Page 1 of 2 Pages

Hole No. EP-85-2 ~~Diam.~~ (~~Casing~~) P-2 — Boring Started 12/4/85

Co-ordinates: N 255401 E 737017 — Boring Completed 12/4/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation excavation for a proposed breakwater

Elevation Top of Hole -0.7 MLW ~~M.S.L.~~
Total Overburden Drilled 0 Feet
Elevation Top of Rock -0.7 MLW ~~M.S.L.~~
Elevation Bottom of Hole -0.7 MLW ~~M.S.L.~~
Total Rock Drilled 0 Feet
Total Depth of Hole 0 Feet
Core Recovered — %
Core Recovered — Ft.; — Diam. — In.
Soil Samples — In. Diam. — No.
Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level EL. = 48'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	0	2 1/4" OD Pointed Probe

INDEX

Prepared by FISHER — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 2 of 2 Pages

Boring No. ~~FP-85-2~~ Desig. P2 Diam. (Casing) —

Co-ordinates: N 255401 E 737017

Elevation Top of Boring -0.7 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 10/4/85

Total Overburden Drilled 0 Feet Hammer Drop 1.5' Boring Completed 10/4/85

Elevation Top of Rock -0.7 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring -0.7 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 0 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

DEPTH 1"= 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0				50/0"	2¼" OD Pointed Probe	probe directly on rock

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.#8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EP-85-3 ~~Diam.~~ (~~Sheet~~) P-1 — Boring Started 12/4/85

Co-ordinates: N 255445 E 737039 — Boring Completed 12/4/85

Drilled by Cambridge & Boyer — Report Submitted ____

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole 3.0 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 0 Feet

Elevation Top of Rock 3.0 MLW ~~M.S.L.~~

Elevation Bottom of Hole 3.0 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 0 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth sea level

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	0	no probe - shot directly on rock at low tide

INDEX

Prepared by FISHER — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

MED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 1 of 2 Pages

Boring No. EP 85-3 Desig. P-1 Diam. (Casing) —

Co-ordinates: N 255445 E 737038

Elevation Top of Boring 3.0 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 10/4/85

Total Overburden Drilled 0 Feet Hammer Drop 1.5' Boring Completed 10/4/85

Elevation Top of Rock 3.0 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring 3.0 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 0 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
1" = 5'					no probe - shot directly on rock at low tide	

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. # 8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EP-85-4 ~~Diam.~~ (~~Casing~~) P-4 — Boring Started 12/4/85

Co-ordinates: N 255290 E 736946 — Boring Completed 12/4/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -10.6 MLW ~~Mat.~~ — Casing Left in Place — Feet

Total Overburden Drilled 8.5 Feet

Elevation Top of Rock -19.1 MLW ~~M.S.L.~~

Elevation Bottom of Hole -19.1 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 8.5 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth sea level EL = 9.0'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	8.5	2 1/4" OD Pointed Probe

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Rock Drilling — Page —

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Prepared by FISHER — Field Data — Lab Data —

Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 2 Pages

Boring No. FP-85-4 Desig. P4 Diam. (Casing) —

Co-ordinates: N 255290 E 736946

Elevation Top of Boring -10.4' MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/4/85

Total Overburden Drilled 8.5 Feet — Hammer Drop 1.5' — Boring Completed 12/4/85

Elevation Top of Rock -19.1 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -19.1 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 8.5 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH (1" = 5)	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. ~~CORE RECOV~~	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2¼" OD Pointed Probe	
5				WOH		
7.5						
8.5				14		
				50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.#8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FP35-5 ~~Diag.~~ (~~Mark~~) P-5 — Boring Started 12/4/85

Co-ordinates: N 255282 E 736897 — Boring Completed 12/4/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -10.0 MLW ~~M.S.L.~~

Total Overburden Drilled 19.3 Feet

Elevation Top of Rock -29.3 MLW ~~M.S.L.~~

Elevation Bottom of Hole -29.3 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 19.3 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level $E_L = 9.7$

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	19.3	2 1/4" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs, Ltd

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 2 Pages

Boring No. ~~FP85-5~~ Desig. P5 Diam. (Casing) —

Co-ordinates: N 255282 E 736897

Elevation Top of Boring −10.0 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/4/85

Total Overburden Drilled 19.3 Feet — Hammer Drop 1.5' — Boring Completed 12/4/85

Elevation Top of Rock −29.3 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Date — Page —

Elevation Bottom of Boring −29.3 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 19.3 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 1"= 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2¼" OD Pointed Probe	
5				WOH		
10						
11				3		
12				4		
13				5		
14				10		
15				25		
16				27		
17				27		
18				16		
19				50/4"		
19.3				50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. # 8

Site Jonesport Harbor ME — Page 1 of 3 Pages

Hole No. EP85-6 ~~Diam.~~ (~~Casing~~) D-6 — Boring Started 12/4/85

Co-ordinates: N 255274 E 736847 — Boring Completed 12/4/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -8.2 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 36.5 Feet

Elevation Top of Rock — MLW ~~M.S.L.~~

Elevation Bottom of Hole -44.7 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 36.5 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth sealevel El 10.6

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	36.5	2 1/4" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. EP85-6 Desig. P6 Diam. (Casing) —

Co-ordinates: N 255274 E 736847

Elevation Top of Boring −8.2 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/4/85

Total Overburden Drilled 36.5 Feet — Hammer Drop 1.5' — Boring Completed 12/4/85

Elevation Top of Rock −44.7 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring −44.7 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 36.5 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HD Acker

Core Recovered — Ft. — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2 1/4" OD Pointed Probe	
5				WOH		
10						
11				7		
12				4		
13				4		
14				2		
15				2		
16				7		
17				7		
18				5		
19				2		
20				3		
21				7		
22				6		
23				6		
24				7		
25				7		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: Jonesport Harbor ME | Boring No. FP85-6 D-6 | Page 3 of 3

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25'						
26				18		
27				10		
28				12		
29				15		
30				15		
31				20		
32				19		
33				25		
34				19		
35				18		
36				27		Assumed refusal in clay
36.5				50/6"		

58A(Test)

Boring No. FP-85-6

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor — Page 1 of 3 Pages

Hole No. EP85-7 ~~Straw.~~ (~~Casing~~) D-7 — Boring Started 12/5/85

Co-ordinates: N 255267 E 736798 — Boring Completed 12/5/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -9.2 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 41.3 Feet

Elevation Top of Rock — MLW ~~M.S.L.~~

Elevation Bottom of Hole -50.5 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 41.3 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No.

Water Table Depth sea level EL = 3.6'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	41.3	2 1/4" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data

Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. FP85-7 Desig. P7 Diam. (Casing) —

Co-ordinates: N 255267 E 736798

Elevation Top of Boring −9.2 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/5/85

Total Overburden Drilled 41.3 Feet Hammer Drop 1.5' Boring Completed 12/5/85

Elevation Top of Rock — MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring −50.5 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 41.3 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft. — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH 1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4" OD Pointed Probe	
				WOH		
9						
10				7		
11				3		
12				7		
13				3		
14				5		
15				10		
16				7		
17				12		
18				7		
19				7		
20				12		
21				10		
22				11		
23				9		
24				9		
25				8		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: Jonesport Harbor HE

Boring No.: FP-85-7 P-7

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE RECOVERY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
1" = 5' 26						
26				5		
27				17		
28				12		
29				9		
30				13		
31				9		
32				19		
33				17		
34				19		
35				23		
36				16		
37				30		
38				31		
39				25		
40				40		Assumed refusal in clay
41				48		
41.3				50/4"		

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.#8

Site Jonesport Harbor ME — Page 1 of 3 Pages

Hole No. FP85-8 ~~Diam.~~ ~~(Casing)~~ D-35 — Boring Started 12/5/85

Co-ordinates: N 255213 E 736781 — Boring Completed 12/6/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -7.2 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 58.5 Feet

Elevation Top of Rock — MLW ~~M.S.L.~~

Elevation Bottom of Hole -65.7 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 58.5 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth Sea level El = 1.4

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	58.5	2 1/4" OD Pointed Probe

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Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. FP85-8 Desig. P35 Diam. (Casing) —

Co-ordinates: N 255213 E 736781

Elevation Top of Boring — 7.2 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/5/85

Total Overburden Drilled 58.5 Feet — Hammer Drop 1.5' — Boring Completed 12/6/85

Elevation Top of Rock — MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -65.7 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 58.5 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft. — Diam. — In. — Inspected By: Fisher

Soil Samples — In. Diam. — No. — Classification By: —

Soil Samples — In. Diam. — No. — Classification By: —

DEPTH 1"=5	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4" OD Pointed Probe	
5				WOH		
10						
14						
15				4		
16				4		
17				6		
18				8		
19				10		
20				8		
21				7		
22				7		
23				6		
24				22		
25				17		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: Jonesport Harbor ME | Boring No.: FP85-8 D-35 | Page 3 of 3

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25						
26				14		
27				14		
28				20		
29				21		
30				19		
31				22		
32				19		
33				17		
34				47		
35				35		
36				40		
37				39		
38				37		
39				48		
40				39		
41				35		
42				32		
43				40		
44				50		
45				49		
46				48		
47				66		
48				50		
49				45		
50				48		
51				54		
52				76		
53				77		
54				80		
55				98		
56				118		
57				132		
58				133		Assumed refusal in clay
58.5				100+		

58A(Test)

Boring No. FP85-8

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.D.#8

Site Jonesport Harbor ME — Page 1 of 3 Pages

Hole No. EPB5-9 ~~Diam.~~ (~~Casing~~) P-21 — Boring Started 12/6/85

Co-ordinates: N 255159 E 736106 — Boring Completed 12/6/85

Drilled by Cambridge+ Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -3.6 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 32.6 Feet

Elevation Top of Rock -36.2 MLW ~~M.S.L.~~

Elevation Bottom of Hole -36.2 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 32.6 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No. — Water Table Depth sea level Ec = 3.1

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	32.6	2¼" OD Pointed Probe

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Prepared by Fisher — Field Data — — Lab. Data

Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. FP85-9 Desig. P-21 Diam. (Casing) —

Co-ordinates: N 255159 E 736106

Elevation Top of Boring -3.6 MLW ~~M.S.L.~~ — Hammer Wt. 300 — Boring Started 12/6/85

Total Overburden Drilled 32.6 Feet — Hammer Drop 1.5' — Boring Completed 12/6/85

Elevation Top of Rock -36.2 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — — Page —

Elevation Bottom of Boring -36.2 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 32.6 Feet — Drilled By Combridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft — Diam. — In. — Inspected By: Fisher

Soil Samples — In. Diam. — No. — Classification By: —

Soil Samples — In. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2¼" OD Pointed Probe	
5'						
10'				WOH		
15'						
19						
20				3		
21				10		
22				8		
23				13		
24				14		
25				10.		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: . Jonesport Harbor ME | Boring No. FP85-9 P-21 | Page 3 of 3

DEPTH		CORE/SAMPLE			BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25	1'-5'	NO.	SIZE	DEPTH RANGE			
26					10		
27					12		
28					13		
29					14		
30					14		
31					12		
32					31		
32.6					50/8"		
					50/0"		

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FPBS-10 ~~Diam.~~ (~~Casing~~) D-22 — Boring Started 12/6/85

Co-ordinates: N 255113 E 736138 — Boring Completed 12/6/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -7.5 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 23.8 Feet

Elevation Top of Rock -31.3 MLW ~~M.S.L.~~

Elevation Bottom of Hole -31.3 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 23.8 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No.

Water Table Depth sea level EL = 5.9'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	23.8	2 1/4" OD Pointed Probe

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Prepared by FISHER — Field Data — Lab Data

Submitted by ATLANTIC TESTING LAB

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor ME Page 2 of 2 Pages

Boring No. EPBS-10 Desig. P-22 Diam. (Casing) —

Co-ordinates: N 255113 E 736138

Elevation Top of Boring -7.5 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/6/85

Total Overburden Drilled 23.8 Feet Hammer Drop 1.5' Boring Completed 12/6/85

Elevation Top of Rock -31.3 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring -31.3 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 23.8 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

DEPTH	1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0						2 1/4" OD Pointed Probe	
5							
					WOH		
10							
15							
16.6					10		
17.5					15		
18.5					32		
19.5					30		
20.5					29		
21.5					27		
22.5					42		
23.5					50/0"	← 2 1/4"	
>23.8							

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FPBS-11 ~~Diam.~~ (~~Casing~~) P-23 — Boring Started 12/6/85

Co-ordinates: N 255121 E 736188 — Boring Completed 12/6/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -7.2 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 17.6' Feet

Elevation Top of Rock -24.8 MLW ~~M.S.L.~~

Elevation Bottom of Hole -24.8 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 17.6' Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth sea level Ec = 7.5

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	17.6	2¼" OD Pointed Probe

INDEX

Prepared by Fisher — Field Data — — Lab. Data

Submitted by Atlantic Testing Labs, Ltd

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor ME Page 2 of 2 Pages

Boring No. EP85-11 Desig. D-23 Diam. (Casing) —

Co-ordinates: N 255121 E 736188

Elevation Top of Boring − 7.2 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/6/85

Total Overburden Drilled 17.6' Feet Hammer Drop 1.5' Boring Completed 12/6/85

Elevation Top of Rock − 24.8 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Date — Page —

Elevation Bottom of Boring −24.8 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 17.6' Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH	1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0						2¼" OD Pointed Probe	
5							
10					WOH		
15							
17.0					2/8"		
17.6					50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.# 8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EP85-12 ~~Diam.~~ (~~Casing~~) D-24 — Boring Started 12/6/85

Co-ordinates: N 255129 E 736237 — Boring Completed 12/6/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -7.0 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 23.0 Feet

Elevation Top of Rock -30.0 MLW ~~M.S.L.~~

Elevation Bottom of Hole -30.0 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 23.0 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth sea level EL = 8.5'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	23.0	2¼" OD Pointed Probe

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U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

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Boring No. FP-85-12 Desig. P-24 Diam. (Casing) —

Co-ordinates: N 255129 E 736237

Elevation Top of Boring -7.0 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/6/85

Total Overburden Drilled 23.0 Feet Hammer Drop 1.5' Boring Completed 12/6/85

Elevation Top of Rock -30.0 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring -30.0 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 23.0 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH		CORE/SAMPLE			BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0	1"=5'	NO.	SIZE	DEPTH RANGE			
						2 1/4" OD Pointed Probe	
5							
					WOH		
10							
15							
18							
19					3		
20					3		
21					4		
22					8		
23					46		
					50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FP85-13 Diam. (Casing) D-18 — Boring Started 12/6/85

Co-ordinates: N 255182 E 736254 — Boring Completed 12/6/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole −6.5 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 21.7 Feet

Elevation Top of Rock −28.2 MLW ~~M.S.L.~~

Elevation Bottom of Hole −28.2 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 21.7 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth sea level EL = 9.5

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	21.7	2¼" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

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U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

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Boring No. EP-85-13 Desig. P-18 Diam. (Casing) —

Co-ordinates: N 255182 E 736 254

Elevation Top of Boring -6.5 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/6/85

Total Overburden Drilled 21.7 Feet — Hammer Drop 1.5' — Boring Completed 12/6/85

Elevation Top of Rock -28.2 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Date — Page —

Elevation Bottom of Boring -28.2 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 21.7 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 1"=5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2¼" OD Pointed Probe	
5						
				WOH		
10						
15						
17.5						
18.5				3		
19.5				3		
20.5				4		
21.5				3		
21.7				1/2" 50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. # 8

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Hole No. EP85-14 ~~Diam.~~ (~~Casing~~) P-20 — Boring Started 12/7/85

Co-ordinates: N 256167 E 736156 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration foundation investigation for a proposed breakwater

Elevation Top of Hole -8.6 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 24.0 Feet

Elevation Top of Rock -32.6 MLW ~~M.S.L.~~

Elevation Bottom of Hole -32.6 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 24.0 Feet

Core Recovered — %

Core Recovered — Ft.: — Dia. — in.

Soil Samples — in. Dia. — No.

Soil Samples — in. Dia. — No.

Water Table Depth sea level El = 9.9'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	24.0	2¼" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data

Submitted by Atlantic Testing Labs Ltd

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U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

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Boring No. FP-85-14 Desig. P20 Diam. (Casing) —

Co-ordinates: N 255167 E 736156

Elevation Top of Boring −8.6 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 24.0 Feet — Hammer Drop 1.5' — Boring Completed 12/7/85

Elevation Top of Rock −32.6 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring −32.6 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 24.0 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft. — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0 1"=5'	NO.	SIZE	DEPTH RANGE			
0					2¼" OD Pointed Probe	
5						
10				WOH		
15						
16						
17				8		
18				10		
19				14		
20				14		
21				12		
22				19		
23				12		
24				44		
				50/0."		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. # 8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EPBS-15 ~~Diam.~~ ~~(Casing)~~ P-19 — Boring Started 12/7/85

Co-ordinates: N 255175 E 736205 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -6.2 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 20.8 Feet

Elevation Top of Rock -27.0 MLW ~~M.S.L.~~

Elevation Bottom of Hole -27.0 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 20.8 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth sea level $E_L = 9.0'$

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	20.8	2 1/4" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data

Submitted by Atlantic Testing Labs Ltd

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CORPS OF ENGINEERS
NEW ENGLAND DIVISION

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Boring No. FP-86-15 Desig. P19 Diam. (Casing) —

Co-ordinates: N 255175 E 736205

Elevation Top of Boring -6.2 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 20.8 Feet — Hammer Drop 1.5' — Boring Completed 12/7/85

Elevation Top of Rock -27.0 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -27.0 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 20.8 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HA Acker

Core Recovered — Ft. — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH D	DEPTH 1"= 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
						2 1/4" OD Pointed Probe	
5							
10					WOH		
15							
17							
18					4		
19					4		
20					3		
20.8					9/10"		
					50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.#8

Site Jonesport Harbor ME — Page 1 of 3 Pages

Hole No. FP85-16 ~~Diam.~~ (~~Casing~~) P-17 — Boring Started 12/7/85

Co-ordinates: N 255190 E 736304 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -8.9 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 28.5 Feet

Elevation Top of Rock -37.4 MLW M.S.L.

Elevation Bottom of Hole -37.4 MLW M.S.L.

Total Rock Drilled 0 Feet

Total Depth of Hole 28.5 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth sea level EL = 6.5'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	28.5	2 1/4" OD Pointed Probe

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U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

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Boring No. FP-85-16 Desig. P17 Diam. (Casing) —

Co-ordinates: N 255190 E 736304

Elevation Top of Boring −8.9 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 28.5 Feet — Hammer Drop 1.5' — Boring Completed 12/7/85

Elevation Top of Rock −37.4 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring −37.4 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 28.5 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill S HD Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT.	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0 1"= 5'	NO.	SIZE	DEPTH RANGE	CORE REC'VY		
0					2¼" OD Pointed Probe	
5				WOH		
10						
15						
16				5		
17				3		
18				3		
19				2		
20				5		
21				5		
22				5		
23				5		
24				5		
25				46.		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: Jonesport Harbor ME | Boring No. FP-85-16 P-17 | Page 3 of 3

DEPTH		CORE/SAMPLE			BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25'	1" = 5'	NO.	SIZE	DEPTH RANGE			
26'					40		
27'					39		
28'					90		
28.5					100/6"		

58A(Test)

Boring No. FP85-16

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FPBS-17 ~~Diam.~~ (~~Casing~~) D-16 — Boring Started 12/7/85

Co-ordinates: N 255198 E 736353 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole −12.3 MLW ~~M.S.L.~~
Total Overburden Drilled 15.5 Feet
Elevation Top of Rock −27.8 MLW ~~M.S.L.~~
Elevation Bottom of Hole −27.8 MLW ~~M.S.L.~~
Total Rock Drilled 0 Feet
Total Depth of Hole 15.5 Feet
Core Recovered — %
Core Recovered — Ft.: — Diam. — in.
Soil Samples — in. Diam. — No.
Soil Samples — in. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level El = 3.5'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	15.5	2¼" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data

Submitted by Atlantic Testing Labs, Ltd

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U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

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Boring No. FP-85-17 Desig. P16 Diam. (Casing) —

Co-ordinates: N 255198 E 736353

Elevation Top of Boring -12.3 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/7/85

Total Overburden Drilled 15.5 Feet Hammer Drop 1.5' Boring Completed 12/7/85

Elevation Top of Rock -27.8 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring -27.8 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 15.5 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH 0	1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
						2 1/4" OD Pointed Probe	
5					WOH		
10							
11.5					5		
12.5					4		
13.5					8		
14.5					45		
15.5					50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

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Hole No. FDBS-18 ~~Diam.~~ (~~Casing~~) P-15 — Boring Started 12/7/85

Co-ordinates: N 255205 E 736403 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -9.0 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 13.5 Feet

Elevation Top of Rock -22.5 MLW ~~M.S.L.~~

Elevation Bottom of Hole -22.5 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 13.5 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth Sea water EL = 2.7'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	13.5	2 1/4" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

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Boring No. FP-85-18 Desig. P15 Diam. (Casing) —

Co-ordinates: N 255205 E 736403

Elevation Top of Boring -9.0 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 13.5 Feet — Hammer Drop 1.5 — Boring Completed 12/7/85

Elevation Top of Rock -22.5 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -22.5 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 13.5 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft. — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 0 / 1"=5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2¼" OD Pointed Probe	
5				WOH		
10						
13.5						
13.5				100		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
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FIELD LOG OF TEST BORING

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Hole No. FPBS-19 ~~Diam.~~ (~~Casing~~) P-14 — Boring Started 12/7/85

Co-ordinates: N 255213 E 736452 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration foundation investigation for a proposed breakwater

Elevation Top of Hole -8.9 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 16.7 Feet

Elevation Top of Rock -25.6 MLW ~~M.S.L.~~

Elevation Bottom of Hole -25.6 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 16.7 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth sea level EL = 1.7'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	16.7	2¼" OD Pointed Probe

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Rock Drilling — Page —
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Submitted by Atlantic Testing Labs Ltd

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U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

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Boring No. FP-85-19 Desig. P14 Diam. (Casing) —

Co-ordinates: N 255213 E 736452

Elevation Top of Boring -8.9 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 16.7 Feet — Hammer Drop 1.5' — Boring Completed 12/7/85

Elevation Top of Rock -25.6 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Date — Page —

Elevation Bottom of Boring -25.6 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 16.7 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT.	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0 1"= 5'	NO.	SIZE	DEPTH RANGE	CORE REC'VY		
					2 1/4" OD Pointed Probe	
5				WOH		
10						
13.5						
14.5				25		
15.5				27		
16.5				128		
16.7				50/2"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.# 8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FP-85-20 ~~Diam.~~ (~~Casing~~) P-13 — Boring Started 12/7/85

Co-ordinates: N 255221 E 736502 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole −6.6 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 19.0 Feet

Elevation Top of Rock −25.6 MLW ~~M.S.L.~~

Elevation Bottom of Hole −25.6 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 19.0 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — in.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth sea level El = 1.5'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	19.0	2¼" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data

Submitted by Atlantic Testing Labs Ltd

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 2 Pages

Boring No. FP-85-20 Desig. P 13 Diam. (Casing) —

Co-ordinates: N 255221 E 736502

Elevation Top of Boring -6.6 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 19.0 Feet — Hammer Drop 15" — Boring Completed 12/7/85

Elevation Top of Rock -25.6 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -26.6 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 19.0 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HD Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0	NO.	SIZE	DEPTH RANGE			
0					2 1/4" od Pointed Probe	
5						
10				WOH		
15						
16				11		
17				9		
18				36		
19				96		
				50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U.S. ARMY
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FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 3 Pages

Hole No. FP85-21 ~~Diam.~~ ~~(Casing)~~ P-18 — Boring Started 12/7/85

Co-ordinates: N 855229 E 736561 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -8.8 MLW ~~Mat.~~

Total Overburden Drilled 28.8 Feet

Elevation Top of Rock -37.6 MLW ~~Mat.~~

Elevation Bottom of Hole -37.6 MLW ~~Mat.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 28.8 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No.

Casing Left in Place — Feet

Water Table Depth Sea level EL = 0.7'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	28.8	2¼" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data —

Submitted by Atlantic Testing Labs Ltd

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Boring No. FP-85-21 Desig. P12 Diam. (Casing) —

Co-ordinates: N 255228 E 736551

Elevation Top of Boring -0.8 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/7/85

Total Overburden Drilled 28.8 Feet — Hammer Drop 1.5' — Boring Completed 12/7/85

Elevation Top of Rock -37.6 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -37.6 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 28.8 Feet — Drilled By Combridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2¼" OD Pointed Probe	
1"= 5'						
5				WOH		
10						
15				6		
16				11		
17				13		
18				11		
19				16		
20				17		
21				21		
22				9		
23				9		
24				18		
25						

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: Jonesport Harbor ME

Boring No.: FP-85-21 P-12

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. / CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25 to 5'						
26				17		
27				14		
28				79		
28.8				85/10"		
				50/0"		

CORPS OF ENGINEERS, U. S. ARMY
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FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor — Page 1 of 3 Pages

Hole No. FP85-22 ~~Diam.~~ ~~(Casing)~~ P-11 — Boring Started 12/7/85

Co-ordinates: N 255244 E 736850 — Boring Completed 12/7/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole −7.3 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 27.7 Feet

Elevation Top of Rock −35.0 MLW ~~M.S.L.~~

Elevation Bottom of Hole −35.0 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 27.7 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth sea level EL = 3.1'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	27.7	2¼" OD Pointed Probe

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CORPS OF ENGINEERS
NEW ENGLAND DIVISION

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Boring No. FP-85-22 Desig. P11 Diam. (Casing) —

Co-ordinates: N 255244 E 736850

Elevation Top of Boring -7.3 MLW ~~M.S.L.~~ — Hammer Wt. #300# — Boring Started 12/7/85

Total Overburden Drilled 27.7 Feet — Hammer Drop 1.5' — Boring Completed 12/7/85

Elevation Top of Rock -35.0 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Date — Page —

Elevation Bottom of Boring -35.0 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 27.7 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0 1"= 5'	NO.	SIZE	DEPTH RANGE			
					2 1/4" OD Pointed Probe	
5				WOH		
10						
14.5						
15.5				4		
16.5				6		
17.5				7		
18.5				12		
19.5				17		
20.5				15		
21.5				13		
22.5				14		
23.5				39		
24.5				91		
24.5-25.5				84		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: Jonesport Harbor ME

Boring No.: FP 85-22 P-11

DEPTH		CORE/SAMPLE			BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25'	1" = 5'	NO.	SIZE	DEPTH RANGE			
24.5-26.5					89		
26.5					76		
27.5					132		
27.7					58/2" 50/0"		

58A(Test)

Boring No. FP-85-22

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FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. # 8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EP85-23 ~~Diam.~~ (~~Casing~~) P-32 — Boring Started 12/8/85

Co-ordinates: N 255190 E 736633 — Boring Completed 12/8/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole −9.9 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 22.0 Feet

Elevation Top of Rock −31.9 MLW ~~M.S.L.~~

Elevation Bottom of Hole −31.9 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 22.0 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No.

Water Table Depth sea level EL.=11.3'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	22.0	2¼" OD Pointed Probe

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NEW ENGLAND DIVISION

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Boring No. FP-85-23 Desig. P32 Diam. (Casing) —

Co-ordinates: N 255190 E 736633

Elevation Top of Boring -9.9 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/8/85

Total Overburden Drilled 22.0 Feet — Hammer Drop 1.5' — Boring Completed 12/8/85

Elevation Top of Rock -31.9 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -31.9 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 22.0 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — In. Diam. — No. — Classification By: —

Soil Samples — In. Diam. — No. — Classification By: —

DEPTH		CORE/SAMPLE			BLOWS PER FT.	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0	1"= 5'	NO.	SIZE	DEPTH RANGE	CORE REC'VY		
						2¼" OD Pointed Probe	
					WOH		
10					6		
11					4		
12					2		
13					4		
14					3		
15					5		
16					5		
17					6		
18					13		
19					17		
20					14		
21					23		
22					50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

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FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. FPBS-24 Diam. ~~(Casing)~~ P-31 — Boring Started 12/8/85

Co-ordinates: N 255183 E 736683 — Boring Completed 12/8/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -10.1 MLW ~~M.S.L.~~
Total Overburden Drilled 23.1 Feet
Elevation Top of Rock -33.2 MLW ~~M.S.L.~~
Elevation Bottom of Hole -33.2 MLW ~~M.S.L.~~
Total Rock Drilled 0 Feet
Total Depth of Hole 23.1 Feet
Core Recovered — %
Core Recovered — Ft.: — Diam. — In.
Soil Samples — In. Diam. — No.
Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level El. = 7.7'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	23.1	2¼" OD Pointed Probe

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NEW ENGLAND DIVISION

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Boring No. FP-85-24 Desig. P31 Diam. (Casing) —

Co-ordinates: N 255183 E 736583

Elevation Top of Boring -10.1 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/8/85

Total Overburden Drilled 23.1 Feet — Hammer Drop 1.5' — Boring Completed 12/8/85

Elevation Top of Rock -33.2 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -33.2 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 23.1 Feet — Drilled By Combridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2¼" OD Pointed Probe	
5				WOH		
10						
13						
14				3		
15				2		
16				1		
17				1		
18				2		
19				11		
20				13		
21				32		
22				47		
23				121		
23.1				50/1"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
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FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.#8

Site Jonesport Harbor ME — Page 1 of 2 Pages

Hole No. EP85-25 ~~Diam.~~ (~~Casing~~) P-30 — Boring Started 12/8/85

Co-ordinates: N 255175 E 736634 — Boring Completed 12/8/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration foundation investigation for a proposed breakdown

Elevation Top of Hole −8.8 MLW ~~M.S.L.~~

Total Overburden Drilled 24.5 Feet

Elevation Top of Rock −33.3 MLW ~~M.S.L.~~

Elevation Bottom of Hole −33.3 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 24.5 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level El. = 39'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	24.5	2¼" OD Pointed Probe

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Rock Drilling — Page —

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U. S. ARMY
CORPS OF ENGINEERS
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FIELD LOG OF TEST BORING

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Boring No. ~~EP-85-~~ 25 Desig. P 30 Diam. (Casing) —

Co-ordinates: N 255175 E 736534

Elevation Top of Boring −8.8 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/8/85

Total Overburden Drilled 24.5 Feet Hammer Drop 1.5' Boring Completed 12/8/85

Elevation Top of Rock −33.3 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring −33.3 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 24.5 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

DEPTH		CORE/SAMPLE			BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0	1" = 5'	NO.	SIZE	DEPTH RANGE			
						2¼" OD Painted Probe	
5					WOH		
10							
15.5					8		
16.5					38		
17.5					45		
18.5					69		
19.5					64		
20.5					58		
21.5					72		
22.5					98		
23.5					92		
24.5					50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

Site Jonesport Harbor ME PROJECT NO. D.O.#8

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Hole No. EP85-26 ~~Diam. (Casing)~~ P-29

Boring Started 12/8/85

Co-ordinates: N 255167 E 736484

Boring Completed 12/8/85

Drilled by Cambridge & Boyer

Report Submitted

Purpose of Exploration foundation investigation for a proposed breakwater

Elevation Top of Hole -9.0 MLW ~~M.S.L.~~

Total Overburden Drilled 20.0 Feet

Elevation Top of Rock -29.0 MLW ~~M.S.L.~~

Elevation Bottom of Hole -29.0 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 20.0 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level EL. = 1.2'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	20.0	2 1/4" OD Pointed Probe

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Prepared by Fisher
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U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

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Boring No. FP-85-26 Desig. P29 Diam. (Casing) —

Co-ordinates: N 255 167 E 736 484

Elevation Top of Boring −9.0 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/8/85

Total Overburden Drilled 20.0 Feet — Hammer Drop 1.5' — Boring Completed 12/8/85

Elevation Top of Rock −29.0 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring −29.0 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 20.0 Feet — Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 0	DEPTH 1"= 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
						2¼" OD Pointed Probe	
5					WOH		
10							
14							
15					10		
16					23		
17					47		
18					48		
19					37		
20					58		
					50/10"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

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FIELD LOG OF TEST BORING

PROJECT NO. D.O. # 8

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Hole No. FP85-27 Diam. (~~Casing~~) P-28 — Boring Started 12/8/85

Co-ordinates: N 255160 E 736435 — Boring Completed 12/8/85

Drilled by Cambridge & Boyer — Report Submitted

Purpose of Exploration Foundation investigation for a proposed breakwater

Elevation Top of Hole -8.0 MLW ~~Mott.~~

Total Overburden Drilled 18.5 Feet

Elevation Top of Rock -26.5 MLW ~~Mott.~~

Elevation Bottom of Hole -26.5 MLW ~~Mott.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 18.5 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth sea level EL. = 0.2'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	18.5	2 1/4" OD Pointed Probe

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Prepared by Fisher — Field Data — Lab. Data

Submitted by Atlantic Testing Labs Ltd.

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U.S. ARMY
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Boring No. FP-85-27 Desig. P28 Diam. (Casing) —

Co-ordinates: N 255160 E 736435

Elevation Top of Boring -8.0 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/8/85

Total Overburden Drilled 18.5 Feet Hammer Drop 1.5' Boring Completed 12/8/85

Elevation Top of Rock -26.5 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet (Subsurface Water Data) — Page —

Elevation Bottom of Boring -26.5 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 18.5 Feet Drilled By Combridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft. — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0 1"= 5'	NO.	SIZE	DEPTH RANGE			
					2¼" OD Pointed Probe	
5						
				WOH		
10						
14.5						
15.5				19		
16.5				82		
17.5				43		
18.5				115		
				50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

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Hole No. FP-85-28 Diam. (~~Casing~~) P-27 — Boring Started 12/8/85

Co-ordinates: N 255152 E 736386 — Boring Completed 12/8/85

Drilled by CAMBRIDGE + BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole -8.6 MLW ~~M.S.L.~~

Total Overburden Drilled 10.0 Feet

Elevation Top of Rock -18.6 MLW ~~M.S.L.~~

Elevation Bottom of Hole -18.6 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 10.0 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth SEA LEVEL EL = 0.7'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	10.0	2 1/4 POINTED PROBE

INDEX

Prepared by FISHER — Field Data — Lab. Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 2 of 2 Pages

Boring No. FP-85-28 Desig. P27 Diam. (Casing) —

Co-ordinates: N 255152 E 736386

Elevation Top of Boring −8.6 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/8/85

Total Overburden Drilled 10.0 Feet Hammer Drop 1.5' Boring Completed 12/8/85

Elevation Top of Rock −18.6 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring −18.6 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 10.0 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP ACKER

Core Recovered — Ft : — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH 1"=5	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORES RECOV	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2¼" OD PROBE	
5				WOH		
10				50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 2 Pages

Hole No. FP-85-29 ~~Diam.~~ (~~Casing~~) P-26 — Boring Started 12/8/85

Co-ordinates: N 255144 E 736336 — Boring Completed 12/8/85

Drilled by CAMBRIDGE + BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole −7.6 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 16.0 Feet

Elevation Top of Rock −23.6 MLW ~~M.S.L.~~

Elevation Bottom of Hole −23.6 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 16.0 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth SEA LEVEL EL = 0.8'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	16.0	2¼ OD PROBE

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Ground Water — Back of Page —

Boring Location Sketch — Back of Page —

Overburden Record — Page —

Rock Drilling — Page —

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— Page —

— Page —

Prepared by FISHER — Field Data — Lab. Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 2 of 2 Pages

Boring No. FP-85-29 Desig. P26 Diam. (Casing) —

Co-ordinates: N 255144 E 736336

Elevation Top of Boring −7.6 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/8/85

Total Overburden Drilled 16.0 Feet Hammer Drop 1.5' Boring Completed 12/8/85

Elevation Top of Rock −23.6 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Date — Page —

Elevation Bottom of Boring −23.6 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 16.0 Feet Drilled By Combridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP ACKER

Core Recovered — Ft. — Diam. — in. Inspected By: Fisher

Soil Samples — in. Diam. — No. Classification By: —

Soil Samples — in. Diam. — No. Classification By: —

DEPTH 1" = 5	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. ~~CORE RECOVERY~~	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4" OD PROBE	
5				WOH		
10						
14						
15				12		
16				12|	

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 3 Pages

Hole No. EP-85-30 ~~Diam.~~ (~~Casing~~) P-25 — Boring Started 12/8/85

Co-ordinates: N 255137 E 736287 — Boring Completed 12/8/85

Drilled by CAMBRIDGE + BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole -7.1 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 27.8 Feet

Elevation Top of Rock -34.9 MLW ~~M.S.L.~~

Elevation Bottom of Hole -34.9 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 27.8 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No. — Water Table Depth SEA LEVEL EL. -1.2'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	27.8	2 1/4" OD PROBE

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Prepared by FISHER — Field Data — Lab. Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121 — REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 2 of 3 Pages

Boring No. FP-85-30 Desig. P25 Diam. (Casing) —

Co-ordinates: N 255137 E 736287

Elevation Top of Boring -7.1 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/8/85

Total Overburden Drilled 27.8 Feet Hammer Drop 1.5' Boring Completed 12/8/85

Elevation Top of Rock -34.9 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring -34.9 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 27.8 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP ACKER

Core Recovered — Ft. — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

DEPTH 1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4 OD PROBE	
5						
10				WOH		
15						
19.5				—		
20.5				1		
21.5				3		
22.5				4		
23.5				8		
24.5				11		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: JONESPORT HARBOR, ME

Boring No.: FP-85-30, R-25

Page 3 of 3

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
23.6				19	2 1/4 OD PROBE	
26.5				23		
27.5				20		
27.8				44/3" 50/0"		

58A(Test)

Boring No. FP-85-30

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 2 Pages

Hole No. FA-85-3 ~~Drill (Casing)~~ P-10 — Boring Started 12/9/85

Co-ordinates: N 255244 E 736650 — Boring Completed 12/9/85

Drilled by CAMBRIDGE & BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole −9.0 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 18.3 Feet

Elevation Top of Rock −27.3 MLW ~~M.S.L.~~

Elevation Bottom of Hole −27.3 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 18.3 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No. — Water Table Depth SEA LEVEL 13.2'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	18.3	2 1/4 OD POINTED PROBE

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Prepared by FISHER — Field Data — Lab. Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 2 of 2 Pages

Boring No. FP-ES-31 Desig. P-10 Diam. (Casing) —

Co-ordinates: N 255244 E 736650

Elevation Top of Boring −9.0 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/9/85

Total Overburden Drilled 18.3 Feet Hammer Drop 1.5 Boring Completed 12/9/85

Elevation Top of Rock −27.3 MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring −27.3 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 18.3 Feet Drilled By Cambridge & Boyer

Core Recovered — % No. Boxes — Mfg. Des. Drill 5 HP ACKER

Core Recovered — Ft : — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

DEPTH 1" = 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4 O.D. PROBE	
5						
				WOH		
10						
15						
16				6		
17				9		
18				15		
18.3				4/4"		
				50/0"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 3 Pages

Hole No. FP-85-32 ~~Diam.~~ (~~Casing~~) P-9 — Boring Started 12/9/85

Co-ordinates: N 255251 E 736699 — Boring Completed 12/9/85

Drilled by CAMBRIDGE + BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole — 7.1 MLW ~~M.S.L.~~

Total Overburden Drilled 41.7 Feet

Elevation Top of Rock — 48.8 MLW ~~M.S.L.~~

Elevation Bottom of Hole — 48.8 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 41.7 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth SEA LEVEL EL = 12.1'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	41.7	2 1/4" OD POINTED PROBE

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Prepared by FISHER — Field Data — Lab. Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. FP-85-32 Desig. P9 Diam. (Casing) —

Co-ordinates: N 255257 E 736699

Elevation Top of Boring −7.1 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/9/85

Total Overburden Drilled 41.7 Feet — Hammer Drop 1.5' — Boring Completed 12/9/85

Elevation Top of Rock −48.8 MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring −48.8 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 41.7 Feet — Drilled By Cambridge & Bauer

Core Recovered —% No. Boxes — — Mfg. Des. Drill SMR ACKER

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 1"= 5'	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. ~~CORE RECOVY~~	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4 O.D. PROBE	
5						
10				WOH		
15						
17.5						
18.5				18		
19.5				16		
20.5				11		
21.5				10		
22.5				9		
23.5				5		
24.5				5		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: JONESPORT HARBOR, ME

Boring No.: FP-85-32 P-9

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25.5				3	2 1/4 OD PROBE	
26.5				5		
27.5				10		
28.5				9		
29.5				9		
30.5				9		
31.5				7		
32.5				15		
33.5				18		
34.5				13		
35.5				17		
36.5				18		
37.5				21		
38.5				20		
39.5				27		
40.5				26		
41.5				42		
41.7				20/3" 50/0"		

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 3 Pages

Hole No. FP85-33 ~~Diam.~~ (~~Casing~~) P-8 — Boring Started 12/9/85

Co-ordinates: N 255259 E 736749 — Boring Completed 12/9/85

Drilled by CAMBRIDGE & BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole −10.7 MLW ~~M.S.L.~~

Total Overburden Drilled 57.0 Feet

Elevation Top of Rock — MLW ~~M.S.L.~~

Elevation Bottom of Hole −67.7 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 57.0 Feet

Core Recovered — %

Core Recovered — Ft.; — Diam. — in.

Soil Samples — in. Diam. — No.

Soil Samples — in. Diam. — No.

Casing Left in Place — Feet

Water Table Depth SEA LEVEL EL = 7.6'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	57.0	2 1/4 OD POINT PROBE

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Prepared by FISHER (Field Data) — — (Lab. Data)

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. FP-85-33 Desig. P8 Diam. (Casing) —

Co-ordinates: N 255259 E 736748

Elevation Top of Boring -10.7' MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/9/85

Total Overburden Drilled 57.0 Feet — Hammer Drop 1.5' — Boring Completed 12/9/85

Elevation Top of Rock — MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring -67.7 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 57.0 Feet — Drilled By Cambride & Boyer

Core Recovered — % No. Boxes — — Mfg. Des. Drill 5 HP ACKER

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH	CORE/SAMPLE			BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
1"= 5	NO.	SIZE	DEPTH RANGE			
5				WOH		
10						
11				3		
12				2		
13				1		
14				2		
15				6		
16				8		
17				11		
18				8		
19				9		
20				13		
21				9		
22				14		
23				14		
24				16		
25				9		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site	Boring No.	Page
JONESPORT HARBOR	FP-85-33 P-8	3 of 3

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE RECOV	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
26				7		
27				7		
28				7		
29				7		
30				9		
31				17		
32				16		
33				18		
34				24		
35				22		
36				18		
37				17		
38				26		
39				24		
40				22		
41				21		
42				28		
43				32		
44				38		
45				30		
46				31		
47				30		
48				39		
49				48		
50				56		
51				85		
52				71		
53				60		
54				61		
55				48		
56				70		
57				101		

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O.#008

Site JONESPORT HARBOR — Page 1 of 3 Pages

Hole No. FP-85-34 ~~Diam.~~ (~~Casing~~) P-33 — Boring Started 12/9/85

Co-ordinates: N 255198 E 736682 — Boring Completed 12/9/85

Drilled by CAMBRIDGE + BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole — 8.3 MLW ~~M.S.L.~~
Total Overburden Drilled 58.0 Feet
Elevation Top of Rock — MLW ~~M.S.L.~~
Elevation Bottom of Hole — 66.3 MLW ~~M.S.L.~~
Total Rock Drilled 0 Feet
Total Depth of Hole 58.0 Feet
Core Recovered — %
Core Recovered — Ft.: — Diam. — In.
Soil Samples — In. Diam. — No.
Soil Samples — In. Diam. — No.

Casing Left in Place 0 Feet

Water Table Depth SEA LEVEL EL = -0.4

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	58.0	2 1/4" OD PROBE

INDEX

Prepared by PAUL FISHER (Field Data) — (Lab. Data)

Submitted by ATLANTIC TESTING LAB

U.S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor Page 2 of 3 Pages

Boring No. FP-85-34 Desig. P33 Diam. (Casing) —

Co-ordinates: N 255198 E 736682

Elevation Top of Boring −83 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/9/85

Total Overburden Drilled 58.0 Feet Hammer Drop 1.5' Boring Completed 12/9/85

Elevation Top of Rock — MLW ~~M.S.L.~~ Casing Left —

Total Rock Drilled 0 Feet Subsurface Water Data — Page —

Elevation Bottom of Boring −66.3 MLW ~~M.S.L.~~ Obs. Well —

Total Depth of Boring 58.0 Feet Drilled By Cambridge & Boyer

Core Recovered —% No. Boxes — Mfg. Des. Drill 5 HP Acker

Core Recovered — Ft. — Diam. — In. Inspected By: Fisher

Soil Samples — In. Diam. — No. Classification By:

Soil Samples — In. Diam. — No. Classification By:

DEPTH 1"=5	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE REC'VY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2¼" OD PROBE	
5						
10				WOH		
15						
17						
18				7		
19				8		
20				7		
21				6		
22				8		
23				11		
24				8		
25				7		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: JONESPORT HARBOR

Boring No.: FP-85-34

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25					2½" OD PROBE	
26				7		
27				13		
28				13		
29				16		
30				13		
31				13		
32				18		
33				17		
34				20		
35				22		
36				32		
37				27		
38				29		
39				30		
40				32		
41				34		
42				30		
43				31		
44				39		
45				50		
46				36		
47				47		
48				36		
49				48		
50				65		
51				77		
52				44		
53				38		
54				56		
55				58		
56				75		
57				74		
58				108		ASSUMED REFUSAL IN CLAY

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 3 Pages

Hole No. FP-85-35 Diam. (Casing) P-34 — Boring Started 12/10/85

Co-ordinates: N 255206 E 736732 — Boring Completed 12/10/85

Drilled by CAMBRIDGE & BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole −10.2 MLW ~~M.S.L.~~
Total Overburden Drilled 58.3 Feet
Elevation Top of Rock — MLW ~~M.S.L.~~
Elevation Bottom of Hole −68.5 MLW ~~M.S.L.~~
Total Rock Drilled 0 Feet
Total Depth of Hole 58.3 Feet
Core Recovered — %
Core Recovered — Ft.; ~~Diam.~~ — in.
Soil Samples — in. Diam. — No.
Soil Samples — in. Diam. — No.

Casing Left in Place — Feet

Water Table Depth SEA LEVEL EL = 13.2

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	58.3	2 1/4 POINTED PROBE

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Boring Location Sketch	Back of Page —
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Rock Drilling	Page —
	Page
	Page
	Page

Prepared by FISHER — Field Data — Lab. Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121 REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site Jonesport Harbor — Page 2 of 3 Pages

Boring No. FP-85 35 — Desig. P34 — Diam. (Casing) —

Co-ordinates: N 255206 — E 736732

Elevation Top of Boring −10.2 MLW ~~M.S.L.~~ — Hammer Wt. 300# — Boring Started 12/10/85

Total Overburden Drilled 58.3 Feet — Hammer Drop 1.5' — Boring Completed 12/10/85

Elevation Top of Rock — MLW ~~M.S.L.~~ — Casing Left —

Total Rock Drilled 0 Feet — Subsurface Water Data — Page —

Elevation Bottom of Boring −68.5 MLW ~~M.S.L.~~ — Obs. Well —

Total Depth of Boring 58.3 Feet — Drilled By Cambridge & Boyer

Core Recovered — % — No. Boxes — — Mfg. Des. Drill SHO ALIKER

Core Recovered — Ft : — Diam. — in. — Inspected By: Fisher

Soil Samples — in. Diam. — No. — Classification By: —

Soil Samples — in. Diam. — No. — Classification By: —

DEPTH 1" = 5	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2½ OD Probe	
5						
				WOH		
10						
15						
16.5						
17.5				5		
18.5				11		
19.5				18		
20.5				17		
21.5				14		
22.5				14		
23.5				13		
24.5				11		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

Site: JONESPORT HARBOR, ME

Boring No.: F.P-85-35 P-34

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE RECOVERY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
25.5				10	2 1/4 OD PROBE	
26.5				13		
27.5				14		
28.5				13		
29.5				13		
30.5				16		
31.5				15		
32.5				17		
33.5				19		
34.5				19		
35.5				20		
36.5				20		
37.5				23		
38.5				20		
39.5				21		
40.5				25		
41.5				26		
42.5				26		
43.5				36		
44.5				26		
45.5				30		
46.5				42		
47.5				46		
48.5				55		
49.5				59		
50.5				48		
51.5				26		
52.5				42		
53.5				41		
54.5				28		
55.5				29		
56.5				44		
57.5				39		ASSUMED REFUSAL IN CLAY
58.3				100/10"		

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 3 Pages

Hole No. FP-B5-36 Diam. (~~Casing~~) P-36 — Boring Started 12/10/85

Co-ordinates: N 255221 E 736830 — Boring Completed 12/10/85

Drilled by CAMBRIDGE & BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole −10.0 MLW ~~M.S.L.~~

Total Overburden Drilled 33.2 Feet

Elevation Top of Rock −43.2 MLW ~~M.S.L.~~

Elevation Bottom of Hole −43.2 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 33.2 Feet

Core Recovered ____ %

Core Recovered ____ Ft.: ____ Diam. ____ In.

Soil Samples ____ In. Diam. ____ No.

Soil Samples ____ In. Diam. ____ No.

Casing Left in Place ____ Feet

Water Table Depth SEA LEVEL EL = 7.9'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	33.2	2 1/4 OD POINTED PROBE

INDEX

Ground Water	Back of Page	—
Boring Location Sketch	Back of Page	—
Overburden Record	Page	—
Rock Drilling	Page	—
	Page	
	Page	
	Page	

Prepared by FISHER — Field Data — Lab. Data

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 58 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION **FIELD LOG OF TEST BORING**	Site JONESPORT HARBOR Page 2 of 3 Pages Boring No. FP-85-36 Desig. P-36 Diam. (Casing) — Co-ordinates: N 255 221 E 736830

Elevation Top of Boring -10.0 MLW ~~M.S.L.~~	Hammer Wt. 300# Boring Started 12/10/85
Total Overburden Drilled 33.2 Feet	Hammer Drop 1.5'
Elevation Top of Rock -43.2 MLW ~~M.S.L.~~	Casing Left — Boring Completed 12/10/85
Total Rock Drilled 0 Feet	Subsurface Water Data — Page —
Elevation Bottom of Boring -43.2 MLW ~~M.S.L.~~	Obs. Well —
Total Depth of Boring 33.2 Feet	Drilled By CAMBRIDGE + BOYER
Core Recovered — % No. Boxes —	Mfg. Des. Drill 5 HP ACKER
Core Recovered — Ft : — Diam. — In.	Inspected By: FISHER
Soil Samples — In. Diam. — No.	Classification By: —
Soil Samples — In. Diam. — No.	Classification By: —

DEPTH 1" = 5	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. ~~CORE REC'VY~~	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2 1/4 OD PROBE	
5						
				WOH		
10						
15						
16						
17				14		
18				14		
19				7		
20				6		
21				4		
22				9		
23				11		
24				15		
25				13		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

NED FORM 58 (Test) MAY 71

Boring No. FP-85-36

Site: JONESPORT HARBOR

Boring No.: FP-85-36 P-36

Page 3 of 3

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. CORE RECOVERY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
26				17	2 1/4 00 PROBE	
27				14		
28				19		
29				20		
30				20		
31				16		
32				21		
33				14		
33.2				100/3"		

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 2 Pages

Hole No. ~~AP-85-37 Diam.~~ (~~Casing~~) P-37 — Boring Started 12/10/85

Co-ordinates: N 255229 E 736880 — Boring Completed 12/10/85

Drilled by CAMBRIDGE + BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWALL

Elevation Top of Hole −9.1 MLW ~~M.S.L.~~
Total Overburden Drilled 24.5 Feet
Elevation Top of Rock −33.6 MLW ~~M.S.L.~~
Elevation Bottom of Hole −33.6 MLW ~~M.S.L.~~
Total Rock Drilled 0 Feet
Total Depth of Hole 24.5 Feet
Core Recovered — %
Core Recovered — Ft.: — Diam.: — in.
Soil Samples — In. Diam. — No.
Soil Samples — In. Diam. — No.

Casing Left in Place — Feet

Water Table Depth SEA LEVEL, EL = 3.2'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	24.5	2 1/4 00 POINTED PROBE

INDEX

Prepared by FISHER (Field Data) (Lab. Data)

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site JONESPORT HARBOR Page 2 of 2 Pages

Boring No. FP-85-37 Desig. P-37 Diam. (Casing) —

Co-ordinates: N 255 229 E 736 880

Elevation Top of Boring −9.1 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/10/85

Total Overburden Drilled 24.5 Feet Hammer Drop 1.5' Boring Completed 12/10/85

Elevation Top of Rock −33.6 MLW ~~M.S.L.~~ Casing Left — Subsurface Water Data — Page —

Total Rock Drilled 0 Feet Obs. Well —

Elevation Bottom of Boring −33.6 MLW ~~M.S.L.~~ Drilled By CAMBRIDGE & BOYER

Total Depth of Boring 24.5 Feet Mfg. Des. Drill 5 HP ACKER

Core Recovered — % No. Boxes — Inspected By: FISHER

Core Recovered — Ft : — Diam. — In. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No.

DEPTH	CORE/SAMPLE NO.	SIZE	DEPTH RANGE	BLOWS PER FT. CORE RECVY	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
					2½ OD PROBE	
5				WOH		
10						
15						
15.5						
16.5				10		
17.5				15		
18.5				12		
19.5				9		
20.5				12		
21.5				10		
22.5				7		
23.5				10		
24.5				62	100/7"	

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

CORPS OF ENGINEERS, U. S. ARMY
NEW ENGLAND DIVISION
FOUNDATION AND MATERIALS BRANCH

FIELD LOG OF TEST BORING

PROJECT NO. D.O. #8

Site JONESPORT HARBOR — Page 1 of 2 Pages

Hole No. FP 85-38 Diam. (Casing) P-38 — Boring Started 12/10/85

Co-ordinates: N 255236 E 736929 — Boring Completed 12/10/85

Drilled by CAMBRIDGE & BOYER — Report Submitted

Purpose of Exploration FOUNDATION INVESTIGATION FOR A PROPOSED BREAKWATER

Elevation Top of Hole −7.7 MLW ~~M.S.L.~~ — Casing Left in Place — Feet

Total Overburden Drilled 15.7 Feet

Elevation Top of Rock −23.4 MLW ~~M.S.L.~~

Elevation Bottom of Hole −23.4 MLW ~~M.S.L.~~

Total Rock Drilled 0 Feet

Total Depth of Hole 15.7 Feet

Core Recovered — %

Core Recovered — Ft.: — Diam. — In.

Soil Samples — In. Diam. — No.

Soil Samples — In. Diam. — No.

Water Table Depth SEA LEVEL EL = 1.9'

Depth From	Depth To	Method of Drilling and Type of Bit Used
0	15.7	2 1/4 OD POINTED PROBE

INDEX

Prepared by FISHER — Field Data — Lab Data —

Submitted by ATLANTIC TESTING LAB

NED FORM DEC 63 121

REPLACES EDITION OF JUN 51 WHICH MAY BE USED UNTIL EXHAUSTED

U. S. ARMY
CORPS OF ENGINEERS
NEW ENGLAND DIVISION

FIELD LOG OF TEST BORING

Site JONESPORT HARBOR Page 1 of 2 Pages

Boring No. FP-85-38 Desig. P-38 Diam. (Casing) —

Co-ordinates: N 225236 E 736929

Elevation Top of Boring -7.7 MLW ~~M.S.L.~~ Hammer Wt. 300# Boring Started 12/10/85

Total Overburden Drilled 15.7 Feet Hammer Drop 1.5' Boring Completed 12/10/85

Elevation Top of Rock -23.4 MLW ~~M.S.L.~~ Casing Left — Subsurface Water Data — Page —

Total Rock Drilled 0 Feet Obs. Well —

Elevation Bottom of Boring -23.4 MLW ~~M.S.L.~~ Drilled By CAMBRIDGE & BOYER

Total Depth of Boring 15.7 Feet Mfg. Des. Drill 5 HP ACKER

Core Recovered — % No. Boxes — Inspected By: FISHER

Core Recovered — Ft — Diam. — In. Classification By: —

Soil Samples — In. Diam. — No. Classification By: —

Soil Samples — In. Diam. — No.

DEPTH	CORE/SAMPLE NO.	CORE/SAMPLE SIZE	CORE/SAMPLE DEPTH RANGE	BLOWS PER FT. ~~CORE RECVY~~	SAMPLING AND CORING OPERATIONS	CLASSIFICATION OF MATERIALS
0					2 1/4 OD PROBE	
5				WOH		
10						
14.5						
15.5				5		
15.7				100/2"		

GENERAL REMARKS: The above drilling log has been adjusted for tidal effect so that the final probe elevation, as surveyed, matches the depth totaled during the exploration.

SECTION 9

Other Records Taken

a. Survey Notes

π - DD
Ψ - DD
ϕ - PF
12/4/85 - 12/10/85

Jonesport Harbor

Jonesport, Maine

Horiz & Vert location of profiles pg. D1, D3

Level Circuit pg. A

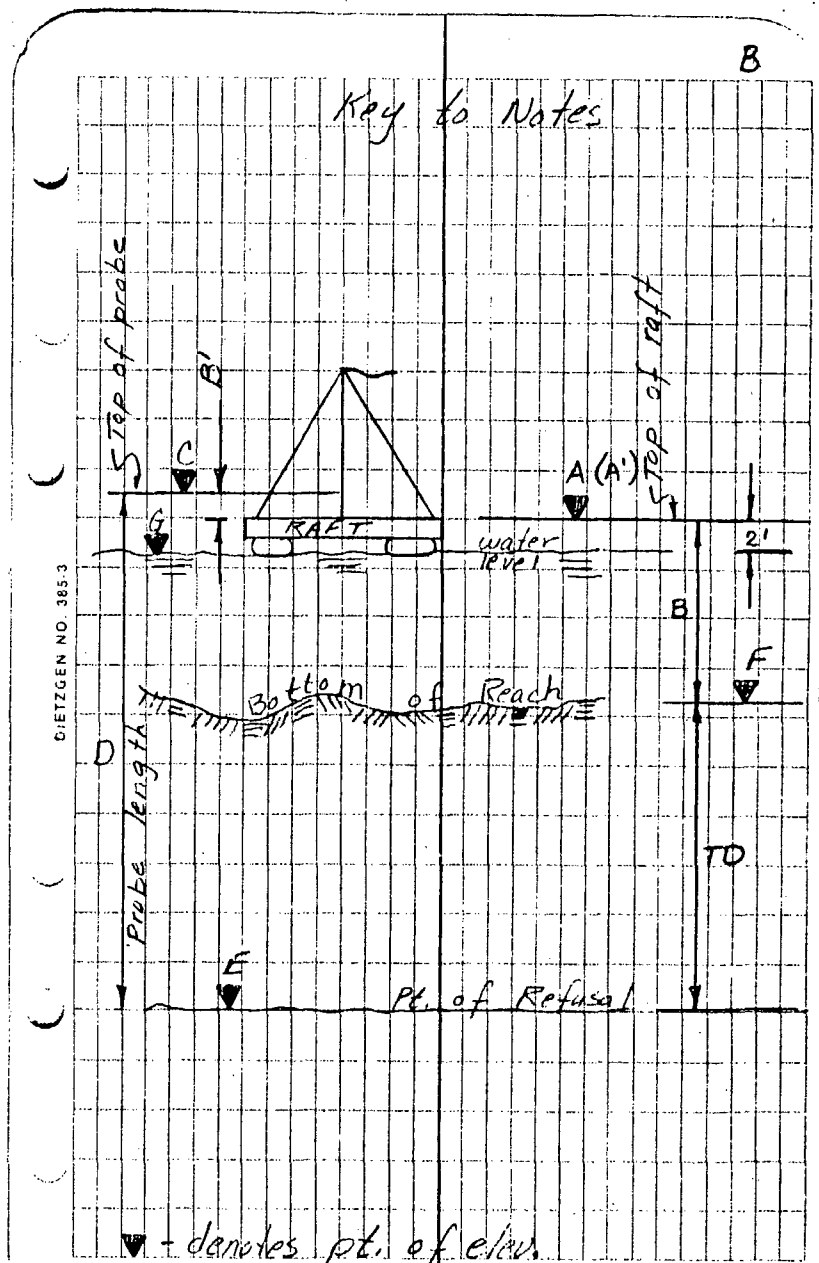
Key to Notes pg. B

Explanation of Notes pg C, D2

Donna L. Wolfe, L.S.

DIETZGEN NO. 385-3

STA	B.S.	H.I.	F.S.	Elev.	
BM-1	3.90	23.16		19.26	(MLW)
Henry			3.68	19.48	(MLW)



Explanation of Notes

A -	Elevation of top of Raft @ start
B -	dist. from top of Raft to bottom of Reach at start
C -	Elevation of top of probe
D -	probe length
E -	Elevation of point of Refusal = C - D
F -	Elevation of bottom of Reach = A - B
G -	Elevation of water level = A - 2'
B'	dist. from top of Raft to top of probe at finish
A'	Elev. of top of Raft at finish
ΔA	difference in Raft elev. (A' - A)
TD	Total depth

Horizontal & Vertical location of Probes, w/ blow counts per foot, by Probe no.

Probe no.	page	Probe no.	page
P1	3	P20	14
P2	2	P21	9
P3	1	P22	10
P4	4	P23	11
P5	5	P24	12
P6	6	P25	30
P7	7	P26	29
P8	33	P27	28
P9	32	P28	27
P10	31	P29	26
P11	22	P30	25
P12	21	P31	24
P13	20	P32	23
P14	19	P33	34
P15	18	P34	35
P16	17	P35	8
P17	16	P36	36
P18	13	P37	37
P19	15	P38	38

DIETZGEN NO. 385-S

D2

VD - Vert. dist.

HD - Horiz. dist (Rod Interval)

Rod - Rod Intercept

V ∢ Vert. Angle @ Rod Intercept

Elev. Mean Low water (MLW) datum

H.I. = Elev. of "Henry" + h.i.

H ∢ - horizontal angle } See Note #1

-d- dist }

Note #1: Horizontal location of Probes determined by radial stakeout method: occupied pt = "Henry"
backsite pt = "BM-1"

D3

Horizontal & Vertical location of probes, w/ blow counts per foot, by Page No.

Page	Probe	Page	Probe
1	P3	20	P13
2	P2	21	P12
3	P1	22	P11
4	P4	23	P32
5	P5	24	P31
6	P6	25	P30
7	P7	26	P29
8	P35	27	P28
9	P21	28	P27
10	P22	29	P26
11	P23	30	P25
12	P24	31	P10
13	P18	32	P9
14	P20	33	P8
15	P19	34	P33
16	P17	35	P34
17	P16	36	P36
18	P15	37	P37
19	P14	38	P38

DIETZGEN NO. 365-3

1	12/4/85	P3	N 255356		
			E 736995		
H.I. = Henry + 5.15 = 19.48 + 5.15 = 24.6					
H ∡	262° 49'				
-d-	202				
	VD	HD	Rod	V ∡	Elev.
A					
B					
C		2.02	2.0	93°27	10.4
D	16.0				
E		C-D			~~10.4~~ 5.6
F					
G					

FO-85-1 1

Probe 10:00 - 10:20

Increment	Blows
directly on Rock (100 Blows/0")	

DIETZGEN NO. 385-3

2	12/4/85		N	255401	
		PZ	E	737017	

H.I. = Henry + 5.15 = 19.48 + 5.15 = 24.63

H ∡ 261°10

-d- 152

	VD	HD	Rod	V ∡	Elev.
A		1.52	5.0	94.50	6.8
B					
C		1.52	5.0	93.31	10.3
D	11.0				
E		C-D			-0.7
F		A-B			
G		A-Z			4.8

PRUGE 11:00 - 11:10

Increment Blows

directly on Rock (100 Blows/10")

DIETZGEN NO. 355-3

3	12/4/85			N 255445	
		P1		E 737039	

H.I = Henry + 5.15 = 19.48 + 5.15 = 24.6

H ∠ ~~103~~ 257°56'

-d- 103

	VD	HD	Rod	V ∠	Elev.
A					
B					
C		1.03	5.0	99°18'	3.0
D	0.0				
E		C - D			3.0
F					
G					

FD-85-3 3

Probe 1150 - 1200

No probe - Shot directly on Rock @ Low Ade

DIETZGEN NO. 365.3

4	12/4/85		N 255290		
		P4	E 736946		
H.I. =	Henry + 5.15	= 24.6			
H ∡	267°09'				
d -	282				
	VD	HD	Rod	V ∡	Elev.
A		2.82	4.0	91.57	11.0 ✓
B	21.5				
C		2.82	2.0	91.10	16.9 ✓
D	36.0				
E		C-D			-19.1 ✓ ~~-14.9~~
F		A-B			-10.5
G		A-2			9.6

E = A - TD - B

-19.1 ≈ -19.0

CORR TD = 8.6'

FD-85-4 4

Probe 1:30-1:50

Increment	blows/ft
0 - ~~3~~ 7.5	~~WOH~~ WOH
~~7.5~~ 3 - 8½	14 (refusal)

TD = 8.5

DIETZGEN NO. 385-3

5	12/4/85			N 265 282	
		P 5		E 736897	
H.I. =	Henry + 5.15	= 24.6			
H ∠	274°44'				
-d-	313				
	VD	HD	Rod	V ∠	Elev.
A		3.13	3.0	91°49'	11.7
B	21.6 ~~10.0~~				
C		3.13	0.0	91°27	16.7
D	46.0				
E		C-D			-29.3
F		A-B			-9.9
G		A-2			9.7

E = A - TD - B

$-29.\frac{3}{2} \approx -29.\frac{2}{3}$

Corr. TD = 19.4'

FD-85-5 5

Move

Probe 2'40 - 2'40

Increment	Blows/ft
0 - 11	WOH
11 - 12	3
12 - 13	4
13 - 14	5
14 - 15	10
15 - 16	25
16 - 17	27
17 - 18	27
18 - 19	15
19 - 19.3	50/4"
	Refusal

DIETZGEN NO. 385.3

6	12/9/85			N 255 274	
		P 6		E 736 847	
H.I.	Henry + 5.15	= 24.6			
H ∠	280°52'				
-d-	348'				
	VD	HD	Rod	V ∠	Elev.
A		3.48	3.0	91°29	12.6
B	21.3				
C		3.48	0.0	91°22	16.3
D	61.0				
E		C-D			-44.7
F		A-B			-8.7
G		A-2			10.6
	E = A - TD - B				
	-44.7 ≈ 45.2				
	Corr TD = 36.0				

FO-85-6 6

Prec. 2:50 - 3:40

Increment	Blows	Increment	Blows
0 - 10	WOR	29 - 30	15
10 - 11	7	30 - 31	20
11 - 12	4	31 - 32	19
12 - 13	4	32 - 33	25
13 - 14	2	33 - 34	19
14 - 15	2	34 - 35	18
15 - 16	7	35 - 36	27
16 - 17	7	36 - 36.5	50/6"
17 - 18	5		
18 - 19	2	TD = 36.5	
19 - 20	3		
20 - 21	7		
21 - 22	6		
22 - 23	6		
23 - 24	7		
24 - 25	7		
25 - 26	10		
26 - 27	10		
27 - 28	12		
28 - 29	15		

DIETZGEN NO 365-3

7	12/5/85			N 255,267	
		P7		E 736,748	
H.I.	= Henry + 5.22	= 19.18	+ 5.22	= 24.7	
H ∡	285° 50'				
-d-	387				
	VD	HD	Rod	V ∡	Elev.
A		3.87	3.0	92°23'	~~1.6~~ 5.6
B	14.0				
C		3.87	3.0	92°24	5.5
D	56.0				
E			C-D		-50.5
F			A-B		-8.4
G			A-2		3.6
		E-A-TD-B			
	-50.5'	≈ -49.7			
	Core TD = 42.1				

FD-85-7 7

move 7:00 - 8:00

Probe 8:00 - 12:30

Increment	Blows/6"
0-9	wdH
9-10	7
10-11	3
11-12	7
12-13	3
13-14	5
14-15	16
15-16	7
16-17	12
17-18	7
18-19	7
19-20	12
20-21	10
21-22	11
22-23	9
23-24	9
24-25	8
25-26	5
26-27	17
27-28	12
28-29	9
29-30	13
30-31	9
31-32	19
32-33	17
33-34	19
34-35	23
35-36	16
36-37	30
37-38	31
38-39	25
39-40	40
40-41	48
41-41.3	50/4"

TD = 41.8

DIETZGEN NO. 365 3

B	12/14/85			N 255213	
		P 35		E 736781	
H.I.=	Henry + 5.15	= 19.48 + ~~5.15~~ 5.22		= 24.7	
H ∢	282°34'				
-d-	437				
	VD	HD	Rod	V ∢	Elev.
A		4.37	2.0	92°31	~~3.4~~ 3.5
B	12.5				
C		4.37	4.0	90°42'	15.3
D	81.0				
E		C - D			-65.7
F		A - B			-9.0
G		A - 2			~~9.1~~ 1.4
~~H~~					

E = A - TD - B

-65.7 ≈ -67.5

DUE TO TIDE

CORR TD 56.7'

FD-85-8 8

move 10:00 - 10:40

Probe 12/5/85 10:40 - 4:00

12/6/85 7:00 - 11:40

inc	blows	inc	blows	inc	blows
0-14	WOP	33-34	47	53-54	80
14-15	4	34-35	36	54-55	98
15-16	4	35-36	40	55-56	118
16-17	6	36-37	39	56-57	132
17-18	8	37-38	37	57-58	133
18-19	10	38-39	48	58-58.5	+40
19-20	8	39-40	39		
20-21	7	40-41	35	TD = 58.5	
21-22	7	41-42	32		
22-23	6	42-43	40		
23-24	22	43-44	50		
24-25	17	44-45	49		
25-26	14	45-46	98		
26-27	14	46-47	66		
27-28	20	47-48	50		
28-29	21	48-49	45		
29-30	19	49-50	48		
30-31	22	50-51	54		
31-32	19	51-52	76		
32-33	17	52-53	77		

DIETZGEN NO. 355-3

12/6/85 P21 N 255159 E 736166

H.I. = Henry + 5.28 = 19.48 + 5.28 = 24.8

H ∢ 309° 48

D 1035'

	VD	HD	Rod	V ∢	Elev.
A		1035	7.0	90° 42'	5.1
B	12.01 10.0				
C		10.35	2.65	90° 41	9.7.
D	46.0'				
E =	C - D.				-36.2
F =	A - B				-4.9
G =	A - 2				3.1

E = -Td + B + A

-37.5

-36.2 ≈ ~~-36.5~~

Corr TD = 31.3

FD-85-9 9

move: 11:00 - 12:30

Probe: 12:30 - 1:~~30~~ 40

Increment	# Blows	Increment	# Blows
0 - 18 19	WOH		
19 - 19 20	3	39 - 40	
20 - 20 21	10	40 - 41	
21 - 21 22	8		
22 - 22 23	13		
23 - 23 24	14		
24 - 24 25	10		
25 - 25 26	10		
26 - 26 27	12		
27 - 28	13		
28 - 29	14		
29 - 30	14		
30 - 31	12		
31 - 32	31		
~~32 - 33~~ 32 - 32.6	50/8"		
~~33 - 34~~	50/no penetration		
~~34 - 35~~			
~~35 - 36~~	Total depth = ~~31.6~~ 32.6 (Td)		
~~36 - 37~~			
~~37 - 38~~			
~~38 - 39~~			

DIETZGEN NO. 385-3

10	12/6/85			N 255114	
		P 22		E 736139	
H.I.	= Henry	+ 5.28	= 19.48	+ 5.28 =	24.8
H ∠	= 306° 46'				
D	= 1024				
	V D	H D	Rod	V ∠	Elev.
A		1024	7.0	90°33	7.92
B	~~13.5~~ 15.5				
C	~~41'~~	1024	7.0	90°27	9.71
D	41.0		~~7.0~~	~~90°27~~	
E		C - D			-31.3
F		A - B			-7.6
G		A - 2'			5.9
	E = A - Td - B				
	-31.3 ≈ -31.4				
	CORR TD = 23.7'				

FD-85-10 10

Move : 1:~~30~~ 40 - 1:50

Probe : 1:50 - 2:10

Increment	# blows
0 - 16½	WOH
16½ - 17.5	10
17.5 - 18.5	15
18.5 - 19.5	32
19.5 - 20.5	30
20.5 - 21.5	29
21.5 - 22.5	27
22.5 - 23.5	42
23.5 - 23.8	20/4"
	50 refusal

Td = 23.8'

DIETZGEN NO. 385.3

11 12/6/85 DC N 255121

P-23 E 736188

H.I. = Henry + 5.28 = 19.48 + 5.28 = 24.8

H ⟩ = 305°57

-D = 976

	V D	H D	Rod	V ∠	Elev.
A		9.76	7.0	90°29'	9.5
B	17.0'				
C		9.76	7.0	90°23'	11.22
D	36'				
E		C - D			-24.8
F		A - B			-7.5
G		A - 2			7.5

E = A - TD - B

-24.8 ≠ 25.1

CORR TD = 17.3'

FD-85-11 11

Move : 2:10 - 2:20

Probe : 2:20 - 2:39

Increment	# Blows
0 - ~~15~~ 17	WOH
~~15~~ 17 - ~~17.6~~ 17.6	8" / 2 blows

TD = 17.6'

DIETZGEN NO. 365 2

12	12/6/85			N 255129	
		P-24		E 736237	
HI =	Henry + 5.28 =	19.48	+ 5.28 =		24.8
H ∢	305°04				
d	928				
	VD	HD	Rod	V ∢	Elev
A		9.28	7.0	90°27	10.5
B	18'				
C		9.28	7.0	90°25	11.0
D	41'				
E		C - D			-30.0
F		A - B			-7.5
G		A - Z			8.5

E = A - TD - B

-30 ≈ -30.5

CORR. TD = 22.5

FD-85-12 12

Move 2:40 - 2:50

Probe 2:50 - 3:00

Increment	Blows	
0 - 18	WOH	
18 - 19	3	
19 - 20	3	
20 - 21	4	
21 - 22	8	
22 - 23	46	Refusal
	R	

TD = 23.0'

DIETZGEN NO. 385-2

13 12/6/85 N 255182

P 18 E 736254

W.I. = Henry + 5.28 = 19.48 + 5.28 = 24.8

HD 307°38

D 890'

	ND	HD	Rod	V∠	Elev.
A		8.90	7.0	90°24'	11.5
B	19.5				
C		8.90	7.0	90°19'	12.8
D	41.0				
E		C-D			8-28.2
F		A-B			-8.0
G		A-2			9.5

E = A-TD-B

-28.2 ≈ -29.7

Corr. TD = 20.2'

FD-85-13 13

move 3:00 - 3:30

Probe: 3:30 - 3:40

Increment	Blows
0 - 17.5	WOP
18.5	3
19.5	3
20.5	4
21.5	3
21.7	1 1/2"
	50 Refusal

DIETZGEN NO. 385-3

12/7/85 P-20 N 255167
E 736156

H.I. = Henry + 4.85 = 24.3
H ∡ 309°09'
d = 987'

	VD	HD	Rod	V ∡	Elev.
A		9.87	7.0	90°19'	11.9
B	20.0				
C		9.87	0.0	90°38'	13.4
D	46.0				
E		C-D			-32.6
F		A-B			-8.1
G		A-2			9.9

E = A - TD - B

-32.6 ≈ 32.1

Corr TD = 24.5'

FD-85-14 14

Probe Start 7:40 - 8:03
move 7:00 - 7:40

Increment	# Blows	
0-16	WOH	
16-17	8	
17-18	10	
18-19	11	
19-20	11	
20-21	12	
21-22	19	
22-23	12	
23-R24	44	Refusal

TD = 24'

DIETZGEN NO. 355-3

15	12/7/85			N 255174	
		P. 19		E 736205	
N.I. =	Henry + 4.85 = 19.48 + 4.85 = 24.3				
H ∢ =	308°26'				
d =	938				
	VD	H.D	Rod	V ∢	elev.
A		9.38	7.0	90°23'	11.0
B	19.0				
C		9.38	0.0	90°38'	14.0
D	41.0				
E		C-D			-27.0
F		A-B			- 8.0
G		A-Z			9.0
	E = A - TD - B				
	-27.0 ≈ 28.8				
	CORR TD = 19.0'				

FD-85-15 15

move: 8:00 - 8:10

Probe: 8:10 - 8:20

pull anchors

Increment	Blows
0 - 17	WOH
17 - 18	4
18 - 19	4
19 - 20	3
20 - 20.8	9 / 10"
refusal	

TD = 20.8'

DIETZGEN NO. 385-3

16	12/7/85		N 255 190		
		~~P 25~~	P17 E	736 304	
N.I. =	Henry + 4.85		= 19.98 + 4.85 =		24.3
H ∠ =	~~304°04'~~	306°45'			
d =	~~880~~	~~841~~ 842			
	VD	H.D	Rod	V ∠	Elev.
A		8.42	7.0	90°40	7.5
B	16.0				
C		8.42	0.0	91°04	8.6
D	46.0				
E			C - D		-37.4
F			A - B		-8.5
G			A - 2		6.5

E = A - TD - B

-37.4 ≈ 37.0

CORR TD = 28.9'

FD-85-16 16

Move 8:20 - 9:20

Probe 9:20 - 9:50

Increment	Blows
0-15	W-O-H
15-16	5
16-17	3
17-18	3
18-19	2
19-20	5
20-21	5
21-22	5
22-23	5
23-24	5
24-25	46
25-26	46
26-27	39
27-28	96
28-28.5	100/6"

TD = 28.5

DIETZGEN NO 385-3

17	12/7/85			N 255198	
		P-16		E 736353	
M.I. =	Henry + 4.85 = 19.48 + 4.85 = 24.3				
H ∢	305°45'				
-d-	794				
	VD	HD	Rod	V ∢	Elev.
A		7.94	7.0	90°51'	5.5
B	~~15.6~~ 15.5'				
C		7.94	7.0	91°01'	3.2
D	31.0'				
E		C-D			-27.8
F		A-B			~~-8.0~~ -10.1
G		A-2			3.5
	E = A-TD-B				
	-27.8 ≈ -25.6				
	CORR. TD	17.7'			

FO-85-17 17

move 9:50 - 10:10
Probe 10:10 - 10:30

Increment	Blows
0-11½	WOH
11½-12½	5
12½-13½	4
13½-14½	8
14½-15½	95
	Refusal

TD = 15.5

DIETZGEN NO. 385.3

18	12/7/85		N 255205		
		P 15	E 736403		
H.I. =	Henry + 4.85 = 19.49 + 4.85 = 24.3				
H ∠	304°38'				
d -	746				
	VD	HD	Rod	V ∠	Elev.
A		7.46	7.0	90°58	4.7
B	13.5'				
C		7.46	0.0	91°13'	8.5
D	31.0				
E		C-D			-22.5
F		A-B			-8.8
G		A-2			2.7

E = A - TD - B

-22.5 ≈ -22.3

CORR TD = 13.7'

FD-85-18 18

move 10:30 - 10:50

Probe 10:50 - 11:00

Increment	Blows
0-12½	WOH
12½-13½	100
Refusal	

TD = 13.5'

DIETZGEN NO. 385-3

19	12/7/85		N	255213	
		P.14	E	736452	
H.I.	Henry + 4.85 = 19.48 + 4.85 = 24.3				
H →	303°21'				
-d-	699				
	HD	VD	Rod	V →	Elev.
A		6.99	7.0	91°07	3.7
B	12.5'				
C		6.99	0.0	91°33'	5.4
D	31.0				
E		C-D			-25.6
F		A+B			-8.8'
G		A-2			1.7

$E = A - TD - B$

$-25.6 \simeq -25.5$

CORR TD = 16.8'

FD-85-19

move 11:00 11:20

Probe 11:20 11:30

Increment	Blows
0-13½	
13½-14½	25
14½-15½	27
15½-16½	128
16½-16.7	50/2"

TD = 16.7

DIETZGEN NO. 385-3

20 | 12/7/85 | P 13 | N 255221 | E 736502

H.I. = Henry + 4.85 = 19.48 + 4.85 = 24.3
H ∡ 301° 53'
-d- 652

	HD	VD	Rod	V ∡	Elev.
A		6.52	7.0	91°13	3.5
B	12.0				
C		6.52	7.0	91°03	5.4
D	31.0				
E		C - D			-25.6
F		A - B			-8.5
G		A - 2			1.5

E = A - TD - B

-25.6 ≈ -27.5

CORR TD = 17.1'

FD-85-20 20

move 11:30 - 11:40
Probe 11:40 - 12:00

Increment	Blows
0 - 15	WOH
15 - 16	11
16 - 17	9
17 - 18	36
18 - 19	96
Refusal	

TD = 19

DIETZGEN NO. 385-3

21	12/7/85		N 255228		
		P 12	E 736551		
H.I. = Henry + 4.85 = 19.48 + 4.85 =					24.3
H	300° 12'				
-d-	605				
	V D	H D	Rod	V ∠	Elev.
A		6.05	1.0	91°57'	2.7
B	12.0				
C		6.05	1.0	91°53	3.4
D	41.0 ~~51.0~~ ?				
E		C-D			-37.6 ~~-47.6~~
F		A-B			-9.3
G		A+2			0.7

E = A - TD - B

-37.6
~~-47.6~~ ≈ -38.1

CORR TD = 28.3'

FO-85-21 21

Move 12:00 - 12:10
Probe 12:10 - 12:40

Increment	Blows
0-15	WOP
15-16	6
16-17	11
17-18	13
18-19	11
19-20	16
20-21	17
21-22	21
22-23	9
23-24	9
24-25	18
25-26	17
26-27	14
27-28	79
28-28.8	85/10"

TD = 28.8'

DIETZGEN NO. 385-3

22	12/7/85			N 255236	
		P 11		E 736 600	
H.I. =	Henry + 9.85 = 19.48 + 4.85 = 24.3				
H ∠	298° 14'				
-d-	560				
	VD	HD	Rod	V ∠	Elev.
A		5.60	1.0	91° 52'	5.1
B	13.5				
C		5.60	6.60	91° 12'	6.0
D	41.0 ~~51.0~~				-35.0 ~~-45.0~~
E		C-D			
F		A-B			-8.4
G		A-2			3.1

E = A - TD - B

-35.0 ~~-45.0~~ ≈ -36.1

Corr TD = 26.6'

FD-88-22 22

Move - 12:40 - 1:50

Probe - 1:50 - 2:40

Increment		Blows
0 - ~~14½0~~	~~14.5~~ WOP	WOP
14.5 -	15.5	4
15.5 -	16.5	6
16.5 -	17.5	7
17.5 -	18.5	12
18.5 -	19.5	17
19.5 -	20.5	15
20.5 -	21.5	13
21.5 -	22.5	14
22.5	23.5	39
23.5	24.5	91
24.5	25.5	89
25.5	26.5	76
26.5	27.5	132
27.5	27.7	58/2"

TD = 27.7

DIETZGEN NO. 385-3

23

12/8/85 P32

N 255190
E 736633

H.I. = Henry + ~~4.86~~ 5.10 = ~~19.46~~ 19.48 + ~~4.86~~ 5.10 = 24.6

H ∡	292°31'				
-d-	560'				
	VD	HD	Rod	V ∡	Elev.
A		5.60	1.0	91°03'	~~13.7~~ 13.3
B	22.0				
C		5.60	0.0	91°04	~~14.5~~ 14.1
D	46.6'	~~5.6~~			
E		C - D			~~-31.5~~ -31.9
F		A - B			~~-8.3~~ -8.7
G		A - Z			~~11.7~~ 11.3
B'	-2.0				
A'		~~A~~ C + B'			12.5
~~Z.0~~ ΔA		~~A' - A'~~	A' - A		~~1.2~~

E = A · TO - B ± ΔA

~~-31.5~~ ≈ ~~-30.3~~ ~~-31.5~~

-31.9 ≈ -31.9

Corr TD = 23.2'

FD-85-23 23

Move 7:50 - 8:10
Probe 8:10 - 9:00

Increment	Blows
9 - 10	WOP
10 - 11	6
11 - 12	4
12 - 13	2
13 - 14	4
14 - 15	3
15 - 16	5
16 - 17	5
17 - 18	6
18 - 19	13
19 - 20	17
20 - 21	14
21 - 22	23
	Refusal

TD = 22.0

DIETZGEN NO. 385-3

24	12/8/86		N 255183		
		P 31	E 736583		
H.I	Henry + 5.10 = 19.48 + 5.10 = 24.6				
H ∠	294°54'				
-d-	604				
	VD	HD	Rod	V ∠	Elev.
A		6.04	1.0	91° 19'	9.7
B	18.0				
C		6.04	1.0 (+4.7)	91°28'	(12.8) 8.1
D	+46			~~91°28'~~	
E		C - D			-33.2
F		A - B			- 8.3
G		A - 2			7.7
B'					
A'		C + B			8.1
ΔA		A' - A			-1.6

E = A - TD - B + ΔA

-33.2 ≈ 33.0

Corr TD = 24.9

FO-85-24 24

Move 9:00 - 9:30

Probe 9:30 - 10:00

Increment	Blows
0 - ~~18~~ 13	WOP
13 - 14	3
14 - 15	2
15 - 16	1
16 - 17	1
17 - 18	2
18 - 19	11
19 - 20	13
20 - 21	32
21 - 22	47
22 ~~28~~ 25 - ~~28~~ 23	121
23 ~~28.1~~ 23.1	56 / V

TD = 23.1

DIETZGEN NO. 385-3

25	12/8/85			N 255175	
		P30		E 736534	
H.I	Henry + 5.10 = 19.48 + 5.10 = 24.6				
H∠	296°58'				
-d-	649				
	UD	HD	Rad	V ∠	Elev.
A		6.49	0.5	~~90°26'~~ 91°	~~7.3~~ 5.9
B	14.5				
C		6.49	0.0	91°45	4.7
D	38				
E		C-D			-33.3
F		A-B			-8.6
G		A-2			3.9
B'	-0.3				
A'		C+B'			4.4
ΔA		A'-A			-1.5

E = A - TD + B + ~~ΔA~~

- 33.3 ≈ 346 33.1

Corr TD = 24.7

FD-85-25 25

Archers move 10:00 - 10:40
Probe 10:40 - 11:40

Increment	Blows
0 - 15½	WOP
15½ - 16½	8
16½ - 17½	38
17½ - 18½	45
18½ - 19½	69
19½ - 20½	64
20½ - 21½	58
21½ - 22½	72
22½ - 23½	98
23½ - 24½	92
	Refusal

TD = 24.5

DIETZGEN NO. 385-3

26	12/8/85			N 255167	
		~~P31~~	P29	E 736484	
H.I. =	Henry + 5.10 =	19.48+5.10 = 24.6			
HA	298°46'				
-d-	694'				
	MD	HD	Rod	VA	Elev.
A		6.94	1.0	91° ~~91'~~ 46	3.2
B	11.5				
C		6.94	0.6	91°27'	7.0
D	36.0				
E			C-B		-29.0
F			A-B		-8.3
G			A-2		1.2
B'					
A'					
ΔA					

E = A-TD-B+ΔA

-29.0 ≈ -28.3

Corr. TD = 20.7

FO-85-26 26

Anchors Move 11:40 - 12:10

Probe 12:10 - 12:30

Increment	Blows
0-14	WOP
15	10
16	23
17	47
18	48
19	37
20	58
	Refusal (rock)

TD = 20.0

DIETZGEN NO. 385-3

27 12/8/85 N 255160

P-28 E 736435

H.I. = Henry + 5.1 = 19.48 + 5.10 = 24.6

H ~~A~~ 300°21'

-d- 740'

	VD	HD	Rod	V ∠	Elev.
A		7.40	0.0	91°44'	2.2
B	10.5'				
C		7.40	0.0	91°33'	4.5
D	31.0'				
E			~~A-B~~ C-D		-26.5
F			A-B		-8.3
G			A-2		0.2

E = A - TD - B

-26.5 ≈ -26.8

CORR TD = 18.2'

FD-85-27 27

(Coffee bar) Move: 12:30 - 1:20

Probe: 1:20 - 1:30

Increment	Blows
0 - 14½	WOP
14½ - 15½	19
15½ - 16½	82
16½ - 17½	43
17½ - 18½	115
	Refusal

TD = 18.5

DIETZGEN NO. 385.3

28 | 12/8/85 | N 255152
P-27 | E 736386

N.I. = Henry + 5.10 = 19.48 + 5.10 = 24.6
H ∠ 301°44'
-d- 787'

	VD	HD	Rod	V ∠	Elev.
A		7.87	5.13	91°13	2.7
B	11.5				
C		7.87	0.0	91°15	7.4
D	26.0				
E			C - D		-18.6
F			A - B		-8.8
G			A - 2		0.7

E = A - TD - B

-18.6' ≈ -18.8'

CORR. TD = 9.8'

FD-85-28 28

Move - 1:30 - 1:40
Probe - 1:40 - ~~1:50~~ 2:00

Increment	Blows
0 - 10.0	WOH
	Refusal

TD = 10.0

DIETZGEN NO. 385-3

29	12/8/85		N 255144		
		D-26	E 736336		
11.1.	Henry +5.10 = 19.48+5.10 = 24.6				
11 ∡	302°58'				
-d-	833				
	WD	WD	Rod	V ∡	Elev.
A		8.33	7.0	91°01'	2.8
B	11.0				
C		8.33	0.0	91°11'	7.4
D	31.0				
E		C-D			-23.6
ZF		A-B			-8.2
G		A-Z			0.8
		E = A+TD-B			
		-23.6 ≈ -24.2			
	Corr. TD 15.4'				

FD-85-29 29

Move: 1:50-2:00

Probe: 2:00-2:10

Increment	Blows
8-14	
14-15	12
15-16	121
	Refusal

TD = 16.0

DIETZGEN NO. 385 3

30	12/8/85		N 255137		
		P25	E 736287		
H.I = Henry + 5.10 = 19.48 + 5.10 = 24.6					
H∡	304°04'				
-d-	881				
	VD	HD	Rod	V∡	Elev.
A		8.81	7.0	90°56'	3.2
B	11.5				
C		8.81	0.0	91°12'	6.1
D	41.0				
E		C-D			-34.9
F		A-B			-8.3
G		A-Z			1.2
		E ≈ A-TD-B			
		-34.9 ≈ -36.1			
	Corr TD = 26.6				

FD-85-30 30

move: 2:10 - 2:20

Probe: 2:20 - 3:00

(lost tool)

Increment	Blows
0-19.5	
19.5-20.5	1
20.5-21.5	3
21.5-22.5	4
22.5-23.5	8
23.5-24.5	11
24.5-25.5	19
25.5-26.5	23
26.5-27.6	20
27.5-27.8	46/3"

TD = 27.8

DIETZGEN NO. 385-3

31	12/9/85			N 255244	
		P10		E 736850	
W.I. =	Henry + 5.10 = 19.48 + 5.10 = 24.6				
H ∢	295°55'				
-d-	514				
	VD	HD	Rod	V ∢	Elev.
A		5.14	1.0	90°56'	15.2
B	24.0				
C		5.14	0.0	90°39'	18.7
D	46.0				
E			C - D		-27.3
F			A - B		-8.8
G			A - 2		13.2

$E = A - TD - B$

$-27.3 \approx -28.1$

CORR TD = 18.5'

FD-85-31 31

move 7:00 - 8:00

Probe 8:00 - 8:30

Increment	Blows
0-15	
16	6
17	9
18	15
~~18.5~~ 18.3	46/4"

TD = 19.3

DIETZGEN NO. 385

32	12/9/85		N 255251		
		P 9	E 736699		
H.I.=	Henry + 5.10 = 19.48 + 5.10 = 24.6				
H ∠	293°10'				
-d-	470				
	VD	HD	Rod	V ∠	Elev.
A		4.70	1.0	91°09'	14.1
B	22.5'				
C		4.70	0.0	91°01	16.2
D	~~66~~ 65.0				
E		C - D			-48.8
F		A - B			-8.4
G		A - 2			12.1
B'	-3.7				
A'					12.5
ΔA		A' - A³			-1.6
		E = A + TD - B + ΔA			
		-48.8 ≈	~~-48.6~~	-48.5	
	Corr. TD = 40.4				

FD-85-32 32

Move 8:30 - ~~9~~ 9:00

Probe 9:00 - 10:20

Increment	Blows	Increment	Blows
0 - 17.5	WOP		
17.5 - 18.5	16	35.5 - 36.5	18
18.5 - 19.5	16	36.5 - 37.5	21
19.5 - 20.5	11	37.5 - 38.5	20
20.5 - 21.5	10	38.5 - 39.5	27
21.5 - 22.5	9	39.5 - 40.5	26
22.5 - 23.5	5	40.5 - ~~41.5~~ 41.7	42
23.5 - 24.5	5	41.5 - ~~42.2~~ 41.7	20/3"
24.5 - 25.5	5		Ref
25.5 - 26.5	~~5~~		
26.5 - 27.5	10	TD = ~~40.2~~ 41.7	
27.5 - 28.5	9		
28.5 - 29.5	9		
29.5 - 30.5	9		
30.5 - 31.5	7		
31.5 - 32.5	15		
32.5 - 33.5	18		
33.5 - 34.6	13		
34.6 - 35.5	17		

DIETZGEN NO. 385-3

33 12/9/85 P8

WC: 1d N 255259 E 736749

H.I. = Henry + 5.10 = 19.48 + 5.10 = 24.6

H ∡ 289°51'

-d- ~~228'~~ 428

	VD	HD	Rod	V ∡	E/EU
A		∡ Z.28	1.0	91°52'	9.6
B	17.0				
C		∡ Z.28	0.0	92°19'	7.3
D	75.0				
E		C - D			-67.7
F		A - B			-7.4
G		A + Z			~~-~~7.6
B'	-1.0				
A'		C + B'			6.3
ΔA		A' - A			-3.3

E = A - TD - B + ΔA

-67.7 ≈ -67.7

CORR TD = 60.3'

FD-85-33 33

move 10:20 - 10:30

Probe 10:30 - 11:10

Increment	Blows w o P
6 - 10	
10 - 11	3
11 - 12	2
12 - 13	1
13 - 14	2
14 - 15	6
15 - 16	8
16 - 17	11
17 - 18	8
18 - 19	9
19 - 20	13
20 - 21	9
21 - 22	14
22 - 23	14
23 - 24	16
24 - 25	9
25 - 26	7
26 - 27	7
27 - 28	7
28 - 29	7

48-49	48	29-30	9
49 - 50	56	30-31	17
50-51	85	31-32	16
51-52	71	32-33	18
52-53	60	33-34	24
53-54	61	34-35	22
54-55	48	35-36	18
55-56	70	36-37	17
56-57	101/1A	37-38	26
		38-39	24
		39-40	22
		40-41	21
TD = 57.0		41-42	28
		42-43	32
		43-44	38
		44-46	30
		45-46	31
		46-47	20
		47-48	21

DIETZGEN NO. 385-3

34 | 12/9/85 | N 255198

P33 | E 736682

H.I. = Henry + 5.1 = 19.48 + 5.10 = 24.6

H ∢ = 289°48'

-d- = 518'

	VD	HD	Rod	V ∢	Elev.
A		5.18	1.0	92°26'	1.6
B	10.0				
C		5.18	0.0	92°12'	4.7
D	71.0				
E			C - D		-66.3
F			A - B		-8.4
G			A - 2		-0.4
B'	-3.0				
A'			C + B		1.7
ΔA			A' - A		0.1

E = A - TD - B + ΔA

-66.3 = -66.3

CORR. TD = 57.9'

FO-85-34

34

move 1:10 - 1:30

Probe 1:30 - ~~4:00~~ 3:50

Increment	blows/Probe					
0-17	w.o.P					
17-18	7	36-37	27	55-56	75	
18-19	8	37-38	29	56-57	74	
19-20	7	38-39	30	57-58	~~108~~	
20-21	6	39-40	32			
21-22	8	40-41	34			
22-23	11	41-42	30			
23-24	8	42-43	31	TD = 58.0		
24-25	7	43-44	39			
25-26	7	44-45	50			
26-27	13	45-46	36			
27-28	13	46-47	47			
28-29	16	47-48	36			
29-30	13	48-49	48			
30-31	13	49-50	65			
31-32	18	50-51	77			
32-33	17	51-52	44			
33-34	20	52-53	38			
34-35	22	53-54	60			
35-36	32	54-55	56			

DIETZGEN NO. 385-3

35	12/10/85		N 255206		
		P 34	E 736732		
H.I. =	Henry + 5.18 = 19.48 + 5.18 =				24.7
H ∢	286°27'				
-d-	476				
	VD	HD	Rod	V ∢	Elev.
A		4.76	1.0	91°01	15.2
B	23.5'				
C		4.76	0.0	90°59	16.5
D	85.0				
E		C - D			-68.5
F		A - B			-8.3
G		A - 2			13.2
B'	-3.2				
21½ WD A'		C + B			13.3
ΔA		A' + A			-1.9

-66.6

E = A - TD - B + ΔA

-68.5 = -68.5

CORR. TD = 60.2'

FD-85-35

35

move 9:00 - 9:30

Probe 9:30 - 11:00

Increment		blows	Probe			
0	16½	WOH	~~WOH~~			
16½	17½	5	~~35½~~ 36½	20	54½ - 55½	49
17½	18½	11	~~36½~~ 37½	23	55½ - 56½	44
18½	19½	18	~~37½~~ 38½	20	56½ - 57½	39
19½	20½	17	~~38½~~ 39½	21	57½ - 57.8 (58.3)	100/10"
20½	21½	14	~~39½~~ 40½	25		
21½	22½	14	~~40½~~ 41½	26		
22½	23½	13	41½ - 42½	26		
23½	24½	11	42½ - 43½	36		
24½	25½	10	43½ - 44½	26		
25½	26½	13	44½ - 45½	30		
26½	27½	14	45½ - 46½	42		
27½	28½	13	46½ - 47½	46		
28½	29½	13	47½ - 48½	55		
29½	30½	16	48½ - 49½	59		
30½	31½	15	49½ - 50½	48		
31½	32½	17	50½ - 51½	26		
32½	33½	19	51½ - 52½	42		
33½	34½	19	52½ - 53½	41		
34½	35½	20	53½ - 54½	26		

TD = 59.3

DIETZGEN NO. 385.3

36	12/10/85		N 255221		
		P 36	E 736830		
H.I. =	Henry + 5.18 = 24.7				
# ∢	277°56				
-d-	400'				
	VD	HD	Rod	V ∢	Elev.
A		4.00	1.0	91°58	9.9
B	18.0				
C		4.00	0.0	91°42'	12.8
D	56.0				
E		C - D			-43.2
F		A - D			-8.1
G		A - 2			7.9
B'	~~-4.7~~ -4.67				
A'		C + B			8.1
ΔA		A' - A			-1.8
		E = A - TD - B + ΔA			
		-43.2 ≈ -43.1			
	Corr. TD = 35.1				

FD-85-36 36

Move 11:00 - 11:30

probe 11:30 - 12:10

Increment	blows
0-16	WOH
16-17	14
17-18	14
18-19	7
19-20	6
20-21	4
21-22	9
22-23	11
23-24	15
24-25	13
25-26	17
26-27	14
27-28	19
28-29	20
29-30	20
30-31	16
31-32	21
32-33	14
33-33.2	100/3"

TD = 33.2

DIETZGEN NO. 385-3

37	12/10/85			N 255229	
		P 37		E 736880	
H.I.-	Henry + 5.18				
H∢	272°25'				
-d-	367				
	VD	HD	Rod	V∢	Elev.
A		3.67	1.0	92.°53'	5.2
B	13.5				
C		3.67	0.0	92° 42'	7.3
D	46.0				
E			C-D		-33.6
F			A-B		-8.3
G			A-Z		3.2
B'	-2.3				
A'			C+B		5.0
ΔA			A'-A		-0.2

E = A - TD - B + ΔA

-33.6 ≈ -33.5

Corr. TD 25.3'

FD-85-37

37

Move 12:10 - 12:30

Probe 12:30 - 1:00

Increment	blows
0 - 15½	wash
15½ - 16½	16
16½ - 17½	15
17½ - 18½	12
18½ - 19½	9
19½ - 20½	12
20½ - 21½	10
21½ - 22½	7
22½ - 23½	10
23½ - 24½	62
24½ - 250	100/7"

TD = 25.0

DIETZGEN NO. 385-3

38	12/10/85			N	255236	
			P 38	E	736929	
H.I. =	Henry + 5.18					
H ∠	265° 52'					
-d-	337					
	VD	HD	Rod	V ∠ 93°21'	Elev. 3.9	
A		3.37	1.0	94°02'	~~0.1~~	
B	11.5					
C		3.37	0.0	92°54'	7.6	
D	31.0					
E			C - D		-23.4	
F			A - B		-7.6	
G			A - Z		1.9	
		E = A - TO - B				
		-23.4 ≈	-23.3			
	CORR	TO	15.8'			

FD-85-38 38

move 1:00 - 1:10

probe 1:10 - 1:20

Increment	Blows
0 - 14.5	WOH
14.5 - 15.5	5
15.5 - 15.7	100/2"
	Refusal

DIETZGEN NO 385 3

Summary Of Refusal Elevations

12/11/85

P1	3.0	R	P21	-36.2	R
P2	-0.7	R	P22	-31.3	R
P3	-5.6	R	P23	-24.8	R
P4	-19.1	R	P24	-30.0	R
P5	-29.3	R	P25	-34.9	R
P6	-44.7	C	P26	-23.6	R
P7	-50.5	C	P27	-18.6	R
P8	-67.7	C	P28	-26.5	R
P9	-48.0	R	P29	-29.0	R
P10	-27.3	R	P30	-33.3	R
P11	-35.0	R	P31	-33.2	R
P12	-32.6	R	P32	-31.9	R
P13	-25.6	R	P33	-66.3	C
P14	-25.6	R	P34	-68.3	C
P15	-22.5	R	P35	-65.7	C
P16	-27.8	R	P36	-43.2	R
P17	-37.4	R	P37	-33.6	R
P18	-28.2	R	P38	-23.4	R
P19	-27.0	R			
P20	-32.6	R			

RADIAL STAKE OUT - BCC.PI:						54	255,543.92	737,067.61	HENRY
BACKSIGHT						55	256,139.80	735,964.62	BM-1
AR	257	56	11	SW	16 18 56	102.64	1	255,495.41	737,038.77	P1
AR	261	18	13	SW	19 33 00	152.14	2	255,400.55	737,016.70	P2
AR	262	48	49	SW	21 11 36	201.89	3	255,355.69	736,994.62	P3
AR	267	09	21	SW	25 32 08	281.74	4	255,289.70	736,946.16	P4
AR	274	44	24	SW	33 07 11	312.70	5	255,282.03	736,896.75	P5
AR	280	52	19	SW	39 15 06	346.12	6	255,274.35	736,847.35	P6
AR	285	49	35	SW	44 12 22	386.77	7	255,266.67	736,797.94	P7
AR	289	51	23	SW	48 14 10	427.78	8	255,258.99	736,748.53	P8
AR	293	10	05	SW	51 32 52	470.53	9	255,251.31	736,699.13	P9
AR	295	55	14	SW	54 18 01	514.59	10	255,243.64	736,649.72	P10
AR	298	14	04	SW	56 36 51	559.65	11	255,235.96	736,600.31	P11
AR	300	12	03	SW	58 34 50	605.48	12	255,228.28	736,550.91	P12
AR	301	53	20	SW	60 16 07	651.93	13	255,220.60	736,501.50	P13
AR	303	21	05	SW	61 43 52	698.87	14	255,213.93	736,452.09	P14
AR	304	37	44	SW	63 00 31	746.21	15	255,205.25	736,402.68	P15
AR	305	45	13	SW	64 08 08	793.87	16	255,197.57	736,353.28	P16
AR	306	45	02	SW	65 07 49	841.80	17	255,189.89	736,303.87	P17
AR	307	38	23	SW	66 01 10	889.97	18	255,182.22	736,254.46	P18
AR	308	26	15	SW	66 49 02	938.32	19	255,174.54	736,205.06	P19
AR	309	09	26	SW	67 32 13	986.84	20	255,166.86	736,155.65	P20
AR	309	48	33	SW	68 11 20	1035.50	21	255,159.18	736,106.24	P21
AR	306	46	00	SW	65 08 47	1023.81	22	255,113.61	736,138.62	P22
AR	305	57	23	SW	64 20 10	975.85	23	255,121.29	736,188.03	P23
AR	305	03	46	SW	63 26 33	928.10	24	255,128.97	736,237.44	P24
AR	304	04	20	SW	62 27 07	880.61	25	255,136.65	736,286.84	P25
AR	302	58	09	SW	61 20 56	833.40	26	255,144.33	736,336.25	P26
AR	301	44	04	SW	60 06 51	786.55	27	255,152.00	736,385.66	P27
AR	300	20	37	SW	58 43 24	740.10	28	255,159.68	736,435.07	P28
AR	296	46	04	SW	57 06 51	694.15	29	255,167.36	736,484.47	P29
AR	296	58	13	SW	55 21 00	648.80	30	255,175.04	736,533.88	P30
AR	294	54	18	SW	53 17 05	604.19	31	255,182.71	736,583.29	P31
AR	292	30	50	SW	50 53 37	560.48	32	255,190.39	736,632.69	P32
AR	289	43	27	SW	48 06 14	517.91	33	255,198.07	736,682.10	P33
AR	286	26	40	SW	44 49 27	476.79	34	255,205.75	736,731.51	P34
AR	282	33	40	SW	40 56 27	437.52	35	255,213.42	736,780.91	P35
AR	277	56	17	SW	36 19 04	400.65	36	255,221.10	736,830.32	P36
AR	272	25	23	SW	30 48 10	366.90	37	255,228.78	736,879.73	P37
AR	265	51	58	SW	24 19 45	337.21	38	255,236.46	736,929.14	P38
AR	291	48	40	SW	50 11 27	500.41	41	255,223.54	736,683.20	B1
AR	305	54	45	SW	64 17 32	867.25	42	255,159.05	736,266.18	B2